

Guide to Spring Planting

HIGH TIMES

May 472

420

S U P E R C E L E B R A T I O N

PLAN YOUR 420 PARTY | 420 HOLIDAY STRAINS | FUN 420 FACTS

JOAN JETT INTERVIEW | 10 TIPS FOR AUTO-FLOWERING

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BC Bud Depot

AND REEFERMAN SEEDS

NOVEMBER
2004



CELEBRATE

10 YEARS

OF CHAMPIONSHIP BREEDING!

DECEMBER
2014



10 YEARS YOUNGER: Reeferman (Charles Scott, left) and BCBD's Matt Harvey each placed first overall at the High Times Cannabis Cup in 2004, in Amsterdam. Charles took home the Sativa crown with Love Potion #1 and Matt's winning Indica was BC God Bud.



In 2014 Charles (2nd from right) and Matt (center) were back in Amsterdam to lead a grower's seminar at the 27th Annual Cannabis Cup.

REEFERMAN'S SEED LIST

PRICES PER 10-SEED PACK

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- CBD WILLIE - \$125
- CHINA WHITE - \$100
- EARLY BUBBA KUSH - \$100
- EARLY PURPLE KUSH - \$100
- FIRE OG KUSH - \$200 ♀
- GOLDEN TEMPLE KUSH - \$100
- GRAPEFRUIT - \$200 ♀
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- HASH PLANT - \$100
- HOA BAC SILVER FLOWER - \$200 ♀
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- PURPLE CONGO KUSH - \$200 ♀
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- WAKEFORD 1.0 - \$200 ♀
- WILLIE NELSON - \$100

BC Bud Depot won an award with Night Nurse, a joint project and hybrid of Reeferman's Harmony.



BCBD COMICS PRESENTS:

SOME TIME AGO, IN REEFERMAN'S GARDEN

ALFIE! YOU'RE GREAT WITH A SHOVEL. HOW WOULD YOU LIKE A JOB WITH REEFERMAN SEEDS? I WOULD LOVE THAT, REEFERMAN! CALL ME CHARLES.

A FEW DAYS LATER...

WHAT THE HECK? MOVE OVER, CHUCKY! THERE'S A NEW REEFERMAN IN TOWN! ALFIE, YOU POOR FOOL, YOU'RE NO SUPERHERO. YOU'LL NEVER BREED GENETICS LIKE THESE!

WHO SAID ANYTHING ABOUT BREEDING, CHARLES? ALL I WANT IS YOUR NAME. I'LL JUST STEAL IT! HA HA HA!

YOU'RE DONE HERE, ALFIE! KEEP THE SHOVEL - YOU'RE DIGGING YOUR OWN GRAVE.

DON'T BE FOOLED BY ALFIE'S FAKE SEED WEBSITES, PEOPLE! WHAT HE SELLS ARE KNOCK-OFFS. ONLY I, REEFERMAN, CAN OFFER AUTHENTIC REEFERMAN GENETICS.

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2014 CANNABIS CUP
NIGHT NURSE
BC HASHPLANT X REEFERMAN HARMONY
X FIRE OG KUSH MALE

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THE PURPS - \$90 (())()
GIRL SCOUT COOKIES Bx1 - \$90 (())
SWEET GOD - \$75 (())
CHEM FIRE - \$75 (())
THE BLACK - \$75 (())
BC MANGO - \$75 (())
BC BLUEBERRY - \$75 (())
THE BIG - \$75 (())
SHIATSU KUSH - \$75 (())
SWEET ISLAND SKUNK - \$75 (())
TEXADA TIMEWARP - \$75 (())
ANIMAL COOKIES - \$90
BC SWEET TOOTH - \$75
BC CHEESE - \$75
NIGHT NURSE - \$90 (NEW WINNER!)
707 HEADBAND - \$75
BC HASH PLANT - \$75
BC NORTHERN LIGHTS - \$75
ULTIMATE PURPLE - \$75
BC KUSH - \$60
PURPLE BUDDHA - \$60
SOCAL MASTER KUSH - \$75
WHITE WIDOW - \$75
AMNESIA HAZE - \$75
FIRE OG Bx3 - \$75
ALBINO RHINO - \$60
BC BIG BUD - \$60
BC PINEWARP - \$75
INDOOR MIX - \$75
OUTDOOR MIX - \$50

HIGH CBD

CBD GOD - \$90 (())
HARLEQUIN Bx4 - \$90

FEMINIZED

BC GOD BUD - \$150 (())()
THE PURPS - \$150 (())()
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HIGH TIMES MAY



"Way back in the day, the growers didn't do big crops—they had to do it under the trees and stuff. You didn't get very big plants."

—Spring Awakening, page 47

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47 Spring Awakening

Right now, growers across Northern California are readying their gardens for another sensational season of outdoor cannabis. The master growers of 3rd Generation Family discuss their favorite techniques. *By Samantha Nicholas*

54 10 Tips for Auto-Flowering Pot Plants

Some folks prefer to grow strains that flower automatically at a certain height regardless of changes in the light cycle. For them, we reveal the secrets and tricks to getting the most out of your auto-flowering cannabis garden.

65 420 Forever!

Can you name any other non-historical anniversary or date that receives as much recognition and celebration as April 20? Here's your chance to wander through our cornucopia of 420 history and esoterica.

88 Animals on Drugs

Throughout the ages, humans have discovered psychoactive plants by watching animals ingest them first. Take a walk on the wildest side of nature—one you've probably never seen on National Geographic. *By Sirius J*

99 Prohibition: The Child of Racism


The inherent violence and racism of drug prohibition make the use of militarized police against poor and minority communities inevitable. To move beyond national tragedies like Ferguson, legalizing drugs is an important first step. *By Russ Belville*

109 The High Times Interview: Joan Jett

One of the most influential women in rock 'n' roll, Joan Jett has enjoyed a career spanning 40 years. Jett discusses her road to becoming a legend. *By Dan Skye*

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Stoners across the globe will partake of the special fruit rolled up for 4/20.



Our Wide World of Weed

I remember seeing a documentary years ago about a journalist attempting to write a treatise on the causes of world hunger. He found the task nearly impossible, because every cause he focused on resulted in the discovery of more underlying causes. In the end, there were too many factors to examine—and, of course, the psychic toll it took on him was enormous.

Now, by no means is freedom for the cannabis plant as dire an issue as human beings starving to death. But the subject's breadth and depth are certainly just as imposing and textured. There are so many aspects of the plant to consider: First, of course, comes the idiocy of its illegality and all of the accompanying tragedy. But *High Times* has always tried to stay on top of marijuana's recreational, industrial, medical and spiritual uses as well, a fascinating history that stretches back to the dawn of human civilization. Like that journalist in the documentary, we'll never be able to cover it all.

Still, this issue is a prime example of the range of topics that *High Times* gets to cover. For example, we take an in-depth look at stoners in the animal kingdom: Apparently, they're just like us—they like to get high, too!

Russ Belville writes about how the War on Drugs has contributed to the recent outbreaks of racial unrest in the country, while rock legend Joan Jett shows up on the eve of her induction into the Rock and Roll Hall of Fame for a fascinating look back on her legacy. And, as always, your gardens are our primary concern: In this issue, we provide some valuable tips on spring planting and the art of auto-flowering.

Best of all, we take you on a rollicking ride through the world of 420, our not-so-secret code for toking up. In truth, the adoption of these numerals by our culture is a milestone (milestoner?) achievement: What other international, nonreligious social group has ever anointed a particular date as their day of celebration—and made it stick with such success?

It's a wide world of weed, and we got you covered!

Dan Skye
Editor-in-chief

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Frack You!

The author of "The Dangers of Fracking" (Feb. '15) offers no scientific data at all. He is repeating the same drivel that all anti-fracking groups use. People who believe this rhetoric should go live in a cave, because they are not smart enough to function in the modern world. It takes oil and gas to make the world work, and anyone who says there are other, cleaner alternatives should start telling us what and where they are. If not, educate yourself, because if you just repeat what other people say, you're following the masses; you're not part of the solution. In other words, change the way of the world or live with it.

G.B.

As the co-owner of a certified organic farm, it was a huge victory for us when my fellow farmers and neighbors banned this practice in New York State. It's downright scary when you consider the mess and destruction that the big fracking companies cause. Meanwhile, the residents are often left holding the bag when these same companies then move on to other towns to do the same.

Maria R.

The chemicals we use in fracking are actually like fertilizer. You should do some research. Without fracking, you wouldn't have posted this article. Let's turn off your lights and heat in Colorado, 'cause fracking gives you that shit. You want to boycott fracking? Then that's what you need to live without.

I expect better research out of a *High Times* writer. Or did you get a nice payout for this poor excuse of an article meant to fire up people into hating the very thing that's keeping their asses warm at this very moment? Use your brain and do actual research before posting garbage.

Jayme Baker

We received a deluge of responses to this article. Even a minimal look at the well-documented dangers of fracking should give any individual pause about its value versus its potential damage. Perhaps you're unaware of the series of earthquakes that have recently rocked Texas and Oklahoma, with even some in the generally business-friendly mainstream press suggesting that fracking is the cause.

Anti-Prohibitionist Rant

To medical-edibles opponents: A child is not for you to exploit in your opposition to cannabis use. ATV accidents, gun accidents, paralysis suffered when imitating fake wrestling, drowning while chasing a



Smears and blatant projections of carelessness from one person's misfortune upon a dispensary or edibles-company owner will not be permitted.

dog onto a barely frozen lake, drowning in a pool, choking on a McDonald's un-Happy Meal toy—all of these are threats to the young. The afflictions that all young people suffer are ignorance and selective deafness.

Smears and blatant projections of carelessness from one person's misfortune upon a dispensary or edibles-company owner will not be permitted! Don't accuse any other American of not caring about kids. Expect to be criticized for the cost of prohibition, which you want to continue paying. It's your tab, no matter how many taxes you levy.

Michael B.

Stoner Warmongers

I think it would be entertaining to see an article on "The Stoners Who Started a War." Ideally, to do this, one would need to conduct interviews with Seth Rogen as well as James Franco about the whole Sony hack and what it could mean to the movie industry. I think it would also generate some buzz that being a stoner does not (and should not) limit a person's influence. Seth Rogen is a writer, producer, actor, director and notable stoner. He's also one of the funniest people in Hollywood right now.

Although a war might not even happen

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... it *could*—and it would be in part due to a person who blazes.

Exactly! Give stoners more credit: We're capable of starting a war! Thankfully, we don't know any stoners who have that kind of "influence."

World-Record Quest

Two years ago, I went to the Cannabis Cup in Colorado. As part of my trip, I tried to set the world record for the most different types of marijuana consumed. I contacted Guinness World Records and applied; to my disappointment, they denied me. So the next year, after Colorado legalized, I tried again, but they told me it just wasn't something they were interested in.

So I need the official backing of someone to help me with this project. If I get the right backing for this, I will try to turn this into a documentary.

Let's talk!!

George H.

Sounds like a great reason to smoke a lot of weed. Good luck with that!

Leaving Indiana

I was looking at an online bulletin for the Indiana State Police district near where I live. They often give public notice about arrests they have made in the area. I've seen many sad stories on this site. But today I ran across a story about a trooper who offered a hitchhiker a ride to keep him from traveling on foot in the cold, but ended up hauling him to jail for simple possession of marijuana.

Currently, in the state of Indiana, possession of marijuana under 30 grams is roughly a Class C misdemeanor and could result in a year of incarceration or a maximum fine of \$5,000, according to NORML's website and the Indiana Code of Law.

Indiana is likely to be one of the last states in the US to change its laws regarding cannabis. I'm moving to California in a few months, so the legal status of cannabis in Indiana won't affect me first-hand once I'm living there. But I will always hope for a change in Indiana for those who need it or would like to have access to cannabis.

Wesley C.

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May 2015 **High Times**

THE PINKEST OF KUSH Check out this beautiful garden of Pink Kush in NorCal. This *indica*-dominant hybrid gets its name from the appearance of its impressive pink pistils that exhibit in the early stages of flowering. Slowly nearing harvest, the pistils on these resinous and potent medicinal buds are already browned to perfection. *Photo by Lochfoot*

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JETT PROPULSION Rock 'n' roll goddess Joan Jett is a legend in the world of music. She started her first band, The Runaways, at age fifteen. Her artistry has spanned five different decades. She's currently opening for The Who in "The Who Hits 50 Tour" and, just two days before 4/20, she'll be inducted into the Rock and Roll Hall of Fame. Joan talks to *High Times* on page 109 in our feature interview.





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TREATS OF THE TRIANGLE The region of Humboldt, Mendocino and Trinity Counties in NorCal has long been known as the Emerald Triangle, where great outdoor weed has been produced for decades. The growers of 3rd Generation Family harvest their own crop of emeralds every fall, but the mining begins in the spring. Check out "Spring Awakening" on page 47 for a host of tips to get your garden underway. *Photo by Dan Skye*







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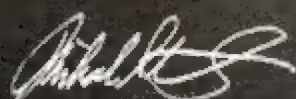
... Come on ... Really?

Look, you're smarter than that. We all know the imitation colas you buy from discount stores are "reverse-engineered" to copy Coca-Cola® too. But is it exactly the same? Absolutely not!

Everyone knows, at the end of the day, there is only one "real thing".

Bottom line is... can you or *do you really* want to risk your valuable cannabis crops and your hard-earned money on unproven claims sold on the basis of "cheap"?

Sincerely,



Michael "BigMike" Straumietis

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Highwitness News

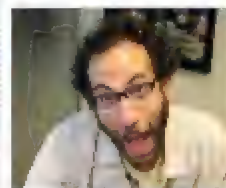
2 Chainz
stickin' it to
Nancy Grace
was pure
gold!



Entertainment

Ari Shaffir

The Comedy Central star and comedian loves his weed and shrooms. p.34



Food

Cannabis Turnovers

These potent pastries are packed with caramel. p.40



Medical Marijuana Milestone

Congress takes a historic first step toward protecting medical marijuana users. *By Paul Armentano*

It took a “do-nothing Congress” to finally do something to protect medical pot patients. In a historic first, members of Congress approved spending legislation in December that limits the ability of the federal government to target and prosecute medical cannabis patients and proprietors who are in compliance with state law. The amendment, sponsored by a bipartisan pair of congressmen, Reps. Dana Rohrabacher (R) and Sam Farr (D) of California, states: “None of the funds made available in this act to the Department of Justice may be used [to prevent states] from implementing their own state laws that authorize the use, distribution, possession, or cultivation of medical marijuana.”

The passage of this provision, added to a \$1.1 trillion federal spending bill, was more than a decade in the making. In 1998, the first year in which a chamber of Congress voted on the issue of medical cannabis, House members decided 310–93 to oppose marijuana-law reform efforts by the states. By 2003, the first year that Rohrabacher (along with former Representative Maurice Hinchey) introduced his proposal to place limits on the Justice Department’s purse, some 152 House members backed the measure. In subsequent years, congressional support continued to grow. By the spring of 2014, support in the House had reached critical mass, with 219 members endorsing the proposal.

“The federal government will finally

respect the decisions made by the majority of states that passed medical marijuana laws,” Farr stated after the bill’s final approval late last year. “This is a great day for common sense, because now our federal dollars will be spent more wisely on prosecuting criminals and not sick patients.”

Indeed. As Americans for Safe Access director Steph Sherer predicts in the *Huffington Post*: “The Rohrabacher-Farr amendment will dramatically impact DOJ enforcement, including ending federal medical marijuana raids, arrests, criminal prosecutions, and civil asset forfeiture lawsuits, as well as providing prisoners with a way to petition for their release.”

While it’s unclear whether the

amendment will have such wide-ranging effects, it's apparent that state-sanctioned medical pot programs now enjoy greater legal protections than ever before. However, these protections may only be temporary: Since the provision was included as part of a 2015 spending package rather than a stand-alone measure, they officially end in September, when the appropriations bill expires. That means extending these protections—as well as those mandated in a separate provision prohibiting the Feds from taking action against state-licensed hemp growers—will need to be voted on by members of Congress and approved again next year.

In the interim, it's likely that additional states will view Congress's latest action as a "green light" to implement their own state-sponsored medical marijuana programs. In the days following the federal bill's passage, lawmakers in various states—including Indiana, Georgia and Kentucky—pre-filed legislation for 2015 seeking to establish state-licensed production and distribution programs to provide cannabis for qualified patients, asserting that their proposals would no longer be in conflict with federal policy.

However, one jurisdiction—Washington, DC—still lacks "safe haven"

It is likely that additional states will view Congress's latest action as a "green light" to implement their own state-sponsored medical marijuana programs.

protection from the Feds. That's because Maryland Representative Andy Harris included a rider to the 2015 spending bill that seeks to limit the ability of the District of Columbia to fully implement Initiative 71, a municipal ordinance passed in November 2014 that removes criminal penalties for personal possession (up to two ounces) and cultivation (up to six plants) by adults.

Harris, a Republican congressman, is a familiar foe to marijuana law reform advocates, having previously (and unsuccessfully) attempted to block the enactment of DC's decriminalization law. Whether his anti-pot efforts will be successful this time around remains to be seen, since some lawmakers dispute whether the language in Harris's rider actually prevents DC officials from enacting the voter-approved measure. City Council chair Phil Mendelson remains unconvinced, telling the *Washington Post* that he "plans to ignore the provision"

and will "send a bill implementing Initiative 71 to Congress in January for a 30-day review, during which federal lawmakers can veto it or let it stand."

Such a review is necessary before any DC initiative can become law. As a result, it appears likely that Congress will be forced in early 2015 to decide the fate of DC's marijuana law—a measure that was approved by 70 percent of the city's electorate. If a majority of federal lawmakers choose to overturn the will of the people, that vote will be a matter of public record. (And perhaps more importantly, any vote striking down DC's sovereignty will be an affront to the present administration—which backs DC's fight for home rule—as well as to much of the Democratic leadership.) On the other hand, if Congress fails to vote up or down, DC's new law will take effect this spring. ✨

Paul Armentano is the deputy director of NORML.

HIGH FIVE

Miracle Medicine

Medical marijuana's astonishing potential is now widely recognized. *By Mark Miller*



Cancer Breakthroughs

Last November, a study conducted at the University of London (published in *Molecular Cancer Therapeutics*) found that the cannabis compounds THC and CBD successfully shrink brain tumors. Researchers noted that the cannabinoids work in tandem against cancer cells due to the different "pathways" taken by THC and CBD in the body. They also render tumors more susceptible to cell-killing radiation in lower, safer doses.



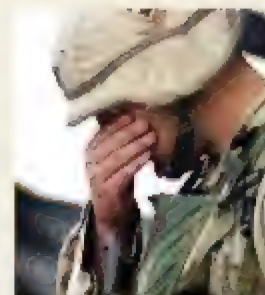
Organ Donation

For years, pot patients were denied donor organs for transplants—but now hope is on the horizon. In early December, the California Medical Association unanimously approved a resolution that opposes state transplant clinics rejecting organ recipients due to medical pot use or failed THC tests. Meanwhile, the California legislature is considering a bill to officially prohibit clinics from excluding legal pot patients for donor organs.



Medicinal Concentrates

In December, a California appellate court unanimously ruled that cannabis concentrates like "honey oil" qualify as medicine. The 3rd District Court of Appeal overturned a lower court's ruling that concentrates weren't included in Prop 215, the state's 1996 medical marijuana law. The justices cited Prop. 215's definition of "marijuana" as "all parts of the plant."



PTSD Research

Also in December, the Colorado Department of Public Health and Environment approved a \$2 million grant to the Multidisciplinary Association for Psychedelic Studies to research the effects of smoked cannabis on post-traumatic stress disorder in 76 U.S. military veterans. Half of the soldiers will be treated by Dr. Sue Sisley, who was dismissed in June by the University of Arizona for planning a similar study there.



Kids & Medical Pot

At the end of 2014, the Illinois Department of Public Health released modified medical marijuana regulations approving use by minors as of January 1. The strict state law was expanded after parents petitioned to include their seizure-stricken kids. Potential pot patients under 18 must have permission from their parents or guardians and are only permitted to consume cannabis in edible or liquid-drop form.

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States' Rights vs. States' Wrongs

Several Oklahoma Republicans came to the defense of marijuana—albeit inadvertently—after their state joined Nebraska in a lawsuit asking the U.S. Supreme Court to reverse the recreational pot law in Colorado.

A group of seven GOP lawmakers are miffed at their fellow Oklahoma Republican, State Attorney General Scott Pruitt, who filed the lawsuit along with Nebraska's AG. The lawmakers wrote Pruitt a letter asking him to quietly drop the suit and let Colorado's decision to legalize pot stand. Yet while it might appear that the Republican reps are on the pro-legalization side, this is yet another case of politics creating strange bedfellows.

In their letter, the Oklahoma seven make it abundantly clear that they are no fans of pot, assuring Pruitt that they share his concerns and “appreciate [his] efforts to protect the people of Oklahoma from this dangerous substance.” Instead, the source of their ire is about the potential damage to states' rights: After all, they argue, if Uncle Sam can force Colorado to change its pot law, who knows what the Feds will force Oklahoma to do

In this case, right-wing mistrust of the federal government works in legalized pot's favor, since the dissenting Republicans have succeeded in bringing the lawsuit under scrutiny and placing Pruitt in the hot seat.



BRAZIL FREES THE CBD



Brazil has legalized the cannabis compound cannabidiol for therapeutic use, in the first major pro-medical marijuana step for the South American country. The National Health Surveillance Agency officially removed CBD from Brazil's list of banned substances, which means the marijuana molecule can now be prescribed by physicians to treat seizures, multiple sclerosis, schizophrenia and other illnesses.

The health agency officially acknowledged that CBD doesn't cause intoxication or result in psychological dependence. And while Brazil won't produce the CBD itself, lawmakers are drafting legislation that will allow it to be imported.

While the new law represents a significant advance, studies indicate that CBD often works more effectively in conjunction with other cannabinoids—including THC—that would only be allowed under a broader medical pot policy.



2 Chainz 2 Smart for Nancy Grace

The unlikely duo of Nancy Grace and 2 Chainz took the Internet by storm after the rapper appeared on the HLN host's eponymous talk show to debate marijuana legalization. And while Grace approached the discussion with her patented blend of bullying and histrionics, 2 Chainz more than held his own.

Grace kicked things off by offering some cherry-picked incidents involving pot and children as evidence that marijuana should remain criminalized. But 2 Chainz, the father of two young daughters, deftly retorted that the parents of those children were “irresponsible people” whose failings shouldn't impact the “stoner community” at large.

While Grace maintained an indignant air throughout, she offered little beyond the usual “think of the children” platitudes. 2 Chainz managed to rise above her pettiness, noting that legalized weed would free up overcrowded prisons, help address the national budget deficit, and end the cycle of racially biased pot arrests that forever taint those convicted.

The debate continued on Twitter, where the thoroughly bested Grace challenged 2 Chainz to a rematch. If the ratings for “The Debate: Part 2” exceed the original, perhaps the pair will follow it up with a buddy-cop film.

Not So Dazed & Confused

American teens have really cleaned up their act, according to an annual study of nationwide teen drug use. The latest “Monitoring the Future” survey found that today's high-schoolers are just not that into booze, cigarettes or prescription drugs. Kids are even smoking less pot despite an

increase in states that allow recreational and medical use.

According to the survey, just 6.5 percent of eighth graders, 16.6 percent of 10th graders and 21.2 percent of 12th graders reported using marijuana in the previous month, down from 7, 18 and 22.7 percent, respectively, in 2013. Roughly one in every 17 high-school seniors—6 percent—used cannabis daily or near daily, although 81

percent of 12th graders reported that it was easy to obtain pot. Only 16.4 percent of high-school seniors believe that occasional marijuana smoking is harmful, down from 27.4 percent five years ago.

Daily cigarette smoking dropped nearly 50 percent over the past five years for all students, while alcohol and prescription-drug use have declined slightly, along with the use of synthetic drugs like K2 and Spice.



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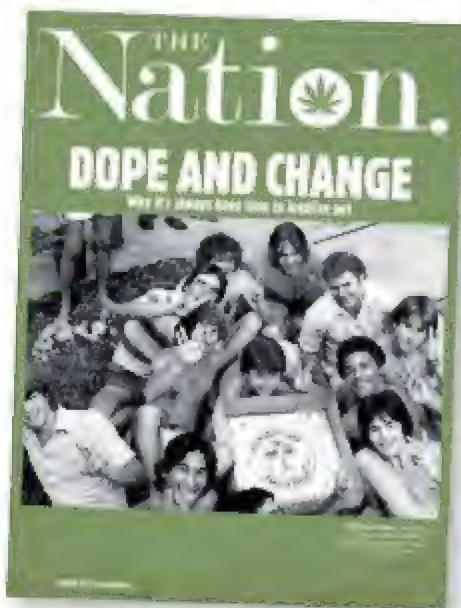
The Nation Turns 150

The Nation, the progressive political magazine, is celebrating its 150th anniversary this year—and there's a lot to celebrate. The oldest continuously published weekly in the United States, *The Nation* was founded on July 6, 1865—mean-

ing that it predates light bulbs, cars and motion pictures. Indeed, its first issue appeared 72 years before marijuana was outlawed in the United States—and in 2013, *The Nation* published a special issue calling for marijuana legalization, including an oral history of *High Times*'s unique role in the struggle (go to thenation.com/article/176881/baking-bad-potted-history-high-times).

Since its founding shortly after the assassination of Abraham Lincoln and the end of the Civil War, *The Nation* has sought to inform readers of “the great strife between the few and the many, between privilege and equality, between law and power, between opinion and the sword,” as it proclaimed in its very first issue. While *The Nation*'s yearlong celebration will highlight the magazine's long history as a champion of social, economic and environmental justice, current editor and publisher Katrina vanden Heuvel hopes to “share the important work *The Nation* is doing today.” To that end, *The Nation* plans to celebrate its 150th anniversary with a book by D.D. Guttenplan on the history of the magazine, due out in March, and a special 250-page issue in April featuring essays from its extensive archives by people like James Baldwin and Martin Luther King Jr., as well as original pieces by Noam Chomsky, Michael Moore and Toni Morrison, among many others.

Additionally, TheNation.com has launched “The Almanac,” which highlights a different historical event for every day of the year with an original article excerpted from *The Nation*. (“The Almanac” is also available through the NationNow app.) The magazine will also be hosting panel discussions and events across the country, which will allow audience members the chance to discuss important issues and learn about *The Nation*'s history and vision for the future. For a full list of the activities and events commemorating the magazine's 150th anniversary, visit thenation.com/150.



Setback for Sativex

The UK-based GW Pharmaceuticals acknowledged that Sativex, its cannabis-derived oral spray, has failed a late-stage clinical trial to determine whether it can be used to relieve pain in cancer patients.

Participants in the initial Phase 3 trial were given Sativex, which is sprayed in the mouth, or a placebo three to 10 times a day for five weeks. The test subjects receiving Sativex reported a statistically insignificant difference in pain relief from those receiving the placebo.

The disappointing results initially caused a plunge in GW stock, which had its first poor showing since the company was listed on NASDAQ in 2013. But thanks to an encouraging—and well-timed—update on Epidiolex, GW's cannabis-based childhood-epilepsy drug, the company's stock recovered quickly and was actually up 2 percent by the end of the day.

Some medical marijuana purists view the Phase 3 results as yet another argument against cannabis-based pharmaceuticals cooked up in a lab, but GW remains confident that, after further late-stage testing, Sativex will be approved for use by cancer patients. The drug is currently approved for treating the symptoms of multiple sclerosis.

No Pardon for Missouri Pot Prisoner Serving Life

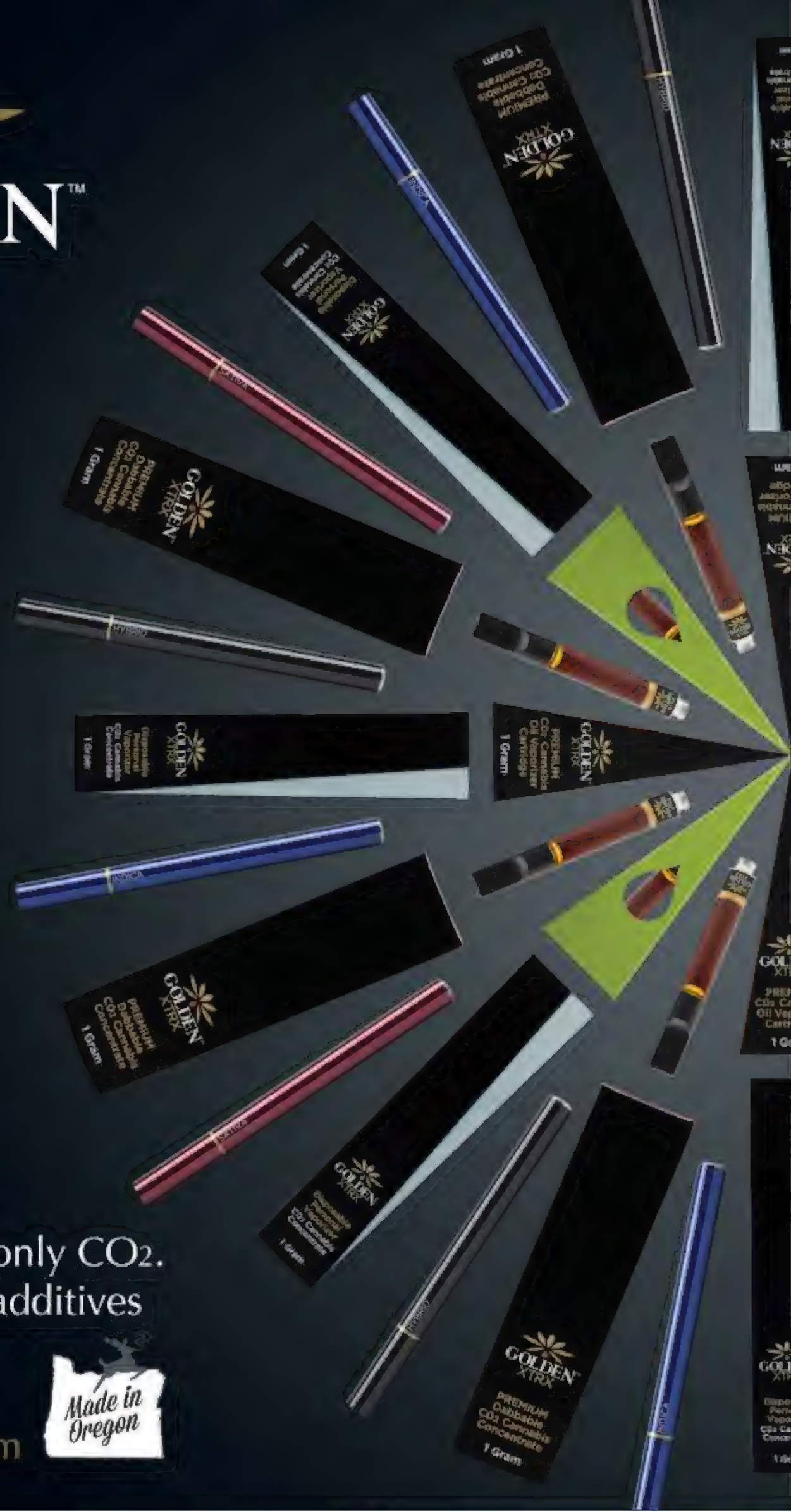
Missouri Governor Jay Nixon declined to pardon high-profile pot prisoner Jeff Mizanskey, even as he freed nine other nonviolent offenders. Mizanskey, 61, is currently serving life without parole, victimized by an unfair “three strikes” law that has since been repealed.

Mizanskey, who has been in prison for more than two decades, was arrested in 1993 for possessing five pounds of marijuana. That non-violent pot offense landed him a life sentence under Missouri's “prior and persistent drug offender” law: Mizanskey had already been arrested in 1984 for selling an ounce of pot, and he got busted again in 1991 for

possession of over 35 grams.

Given the opportunity to right this blatant wrong, Governor Nixon inexplicably failed to pardon Mizanskey. The snub drew public outrage, particularly since Nixon's own son was busted for misdemeanor pot possession in September 2011, although the charges were later dropped due to “lack of evidence.”

Marijuana activist groups Missouri NORML and Show-Me Cannabis have initiated a statewide billboard campaign to raise awareness and are working on obtaining a commitment to pardon Mizanskey from all of Missouri's 2016 gubernatorial candidates.



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HIGHWIRE

Dispatches from the international drug war. *By Bill Weinberg*



Colombian Guerrillas Deny Drug Trafficking

During recent peace talks in Havana, Colombia's FARC guerrillas issued an angry Dec. 14 communiqué insisting: "We are a rebel group, not narco-traffickers." This came in response to Colombian President Juan Manuel Santos's suggestion that FARC drug-trafficking could be considered a "political crime," potentially sparing guerrilla leaders from prosecution. The FARC statement accused the government of trying to "confuse the minds of Colombians" and decried the existence of a "capitalist narco-trafficking business."

Five days later, authorities in Panama announced the arrest of 59 people in a trafficking ring that allegedly involved the FARC and Mexico's leading drug cartel. The 18-month investigation led to the seizure of three tons of cocaine, as well as cars, speedboats, cash and several bank accounts. Most of those arrested were Colombian and Mexican nationals. Javier Caraballo, Panama's top anti-drug prosecutor, linked the ring to both the FARC's 30th Front and a Sinaloa Cartel boss named Martín Pérez, a.k.a. "Richard."

This was the second bust of alleged FARC



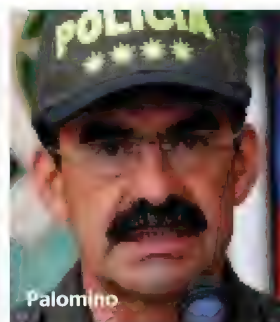
Brazilian Police Exterminated Favela Youth in Run-Up to World Cup?

A harrowing report by National Public Radio on November 9 pointed to the possibility that the crackdown on Brazil's *favela* gangs in the run-up to the World Cup may have actually been a police extermination campaign targeting *favela* youth. On June 11—one day before the World Cup opened—two officers of the Military Police picked up three black teenagers in Rio de Janeiro's Zona Norte, the sprawling zone of *favelas* (or informal settlements). The three hadn't committed any crime, although they did have a history of petty offenses. The officers drove them to the wooded hills of the Morro do Sumaré area overlooking the city. One was shot in the head and killed; another was shot in the back and left for dead; the third escaped. The officers had left the camera in their patrol car on, and the video was shown on Brazil's Globo TV. One officer is heard saying, "Gotta kill the three of them!" Another says, "Two less. If we do this every week, we can reduce their number. We can reach the goal." The "goal" was apparently a target for crime reduction ahead of the World Cup.

cocaine shipments in Panama in recent months. The first, in September, was linked to the FARC's 57th Front. The 57th Front is based in Chocó, and the 30th in Cauca—both regions in Colombia's Pacific Coast known as critical cocaine-transfer zones. According to reports in the Colombian press, the FARC is either fighting or collaborating with right-wing paramilitaries for control of these smuggling routes.

Corrupt Cops Nailed in Colombian Crackdown

Nineteen officers of Colombia's National Police were arrested in Medellín in December, the latest busts in an ongoing crackdown on corrupt officers. Another 7 people were arrested



along with the cops, accused of being their handlers for criminal losses. The arrests were part of the National Police's new "Transparency Plan." National Police commander Rodolfo Palomino tweeted: "They deserve to be treated like Judas, public officials of any institution that are thrown into the maw of corruption." The previous month, 25 National Police agents were arrested as part of the nationwide crackdown.

Police Launch "Anti-Crime" Murder Campaign in Congo

The decades-long civil war in the Democratic Republic of the Congo is instead winding down, but it seems to have left in its wake a police state that views impoverished youth as a threat that must be exterminated. Human Rights Watch reported in November that police in the DRC killed at least 51 young people and "forcibly disappeared" 33 more during an "anti-crime" campaign that began a year earlier.

Operation Likofi was officially described as a crackdown on criminal gangs in Congo's capital of Kinshasa. HRW detailed how uniformed police—often wearing masks—dragged suspected gang members



known as *kuluna*) from their homes at night and executed them. Many other unarmed boys and young men were taken without warrants to unknown locations, never to be seen again.

The Congolese government launched Operation Likofi following a commitment by President Joseph Kabila to end gang violence in Kinshasa, which has been responsible for a surge in street crime since 2006. But the police raids targeted many who had nothing to do with the *kuluna*, HRW found. Some were street kids, while others had been falsely accused by their neighbors in unrelated disputes. In all of the cases investigated by HRW, those who were killed posed no imminent threat that could have justified the use of lethal force.

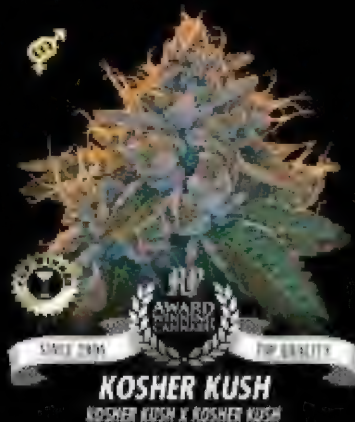
The police have deliberately used savage tactics to terrify others, HRW said. Many of the victims were beaten and humiliated in front of a crowd before being killed. In many cases, the cops left the body in the street, perhaps as a warning, and only later collected it for transfer to the city's morgues. ✱

For updates on these and other stories, see Bill Weinberg's websites, GlobalGanjaReport.com and WorldWar4Report.com.

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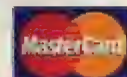
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Putting Together the Perfect **POT PARTY**

Hosting a ganja gala to celebrate 4/20 takes a little bit of planning—maybe even some planting, if you're really thinking ahead! Here are a few tips from the High Times party planners to make your weed bonanza really sparkle.

DECOR

Splurge on a weed piñata! New York City's Confetti System created a giant marijuana-leaf piñata for the High Times 40th-anniversary party. It twinkled above the dance floor like the dankest of all disco balls—until it was whacked apart in a shower of joints, edibles and mota magic.
confettisystem.com

FAVORS

Adorn your guests with marijuana-leaf leis! They'll preen with pot pride. If you have real greenery on hand, string a few leaves on hemp twine with colorful glass beads for added flair. You can also buy silk or polyester leis online.

MUNCHIES

Check out page 40 for 4/20 recipes from High Times edibles expert Elise McDonough. Prepare a buffet of non-infused food as well. Make twice as much food as you think you'll need, and have a stash of cash on hand to order late-night pizzas. Trust us, you'll be calling the delivery guy... maybe for more than just pizza.

ATMOSPHERE

Even the best-stocked party will be a bust without good music. Get a playlist together. Rig a projection screen. Put some trippy videos on the TV. Arrange reeeeeeally comfortable seating. You're not an amateur, are you? We didn't think so.

ATTIRE

Look good on the smoking porch. Stave off the April chill with a glorious Skull Cashmere weed-leaf sweater. Gossamer-light yet warm, soft as a baby bunny's bottom, edgy and chic—you'll be cozy cute.
skullcashmere.com

WEED

A good host provides, or at least makes sure everyone contributes to the stash. Make it a potluck—Mary Jane loves a crowd. Sharing and comparing weed with good friends is one of life's greatest pleasures, especially when there's music and food to boot. For a list of Danny Danko's top strains to smoke on 4/20, go to page 78.

SPOTLIGHT

Mary's Medicinals

Bringing a touch of whimsy to the modern-day green rush of medical marijuana with its 1900s-inspired design, Mary's Medicinals offers seriously top-notch products for optimum patient care. The company aims to establish a global brand of wellness products like the transdermal cannabis patch, which is a superb example of Mary's innovations: Single-dose squares adhere to skin, delivering relief safely and effectively. (The medical-grade formulations include THC *sativa*, THC *indica*, CBD and CBN.) Mary's also manufactures award-winning transdermal gel pens, an all-natural CBC balm, and a host of other healing pot products. Inspired by the apothecaries of yesteryear, Mary's Medicinals is transforming how people use cannabis to soothe their aches and pains today. Available in Washington and Colorado. *marysmedicinals.com*



Blazing Tracers

Ari Shaffir is having a good year. Comedy Central is airing not one but two of his hour-long comedy specials, as well as his storytelling show, *This Is Not Happening*. And his podcast *Skeptic Tank* provides the seemingly ubiquitous comedian with a forum in which to examine a range of ideas and issues, from the serious to the absurd. Shaffir opened up to *High Times* about... opening up. *By Mary Jane Gibson*

Do you use marijuana to write your comedy or perform?

I just smoke weed. If you happen to get some benefits from it, all the better, but trust me—that's not why I'm doing it. It's not like, "I gotta do this to treat my lack of creativity."

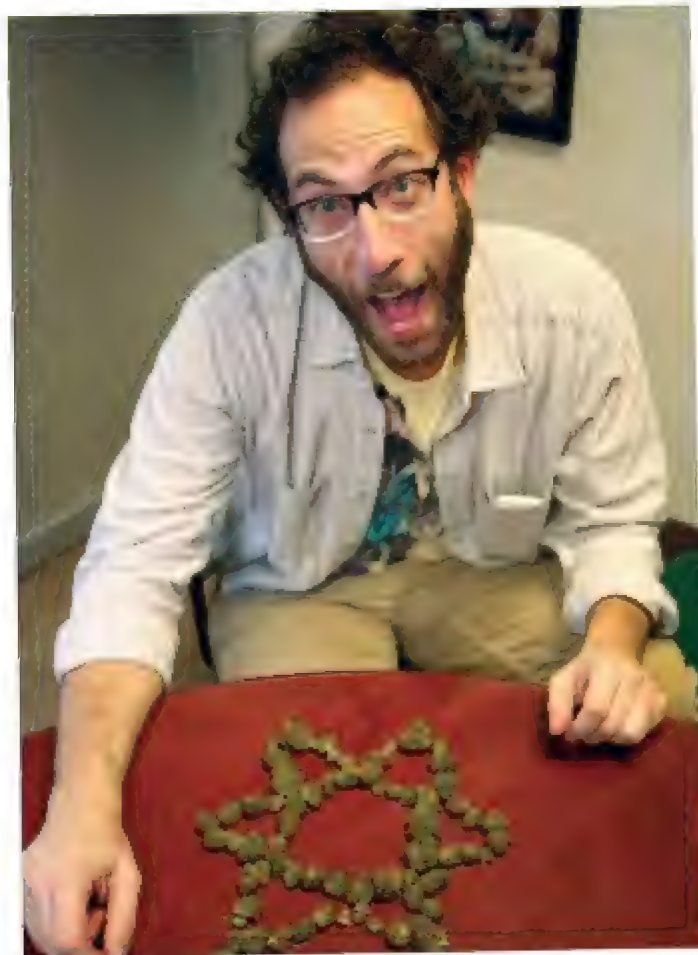
Do you miss the California weed scene?

Yeah, the weed [in New York] is garbage ... it's awful. The weed is not good, and then everyone says, "You gotta go to my guy—my guy has good weed!" But then, when you find that weed, you're like, "Oh, you just think *weed* is good... not *your* weed."

Let's talk about mushrooms.

Oh yeah, I love mushrooms—I think everyone should do them every six months to a year. It helps you reset: It just takes you out of yourself and lets you see yourself without ego, because you're looking at yourself from the outside in. Mushrooms open up everything. Plus it's great just for laughing—and it makes shit look weird.

I think of mushrooms as the anti-cocaine. I've got a new theory on drugs and the order of drugs: How cool they are is inverse to how much you'll deny having done them the next day. So cokeheads will scream up and down, "I don't do that, bro!"—they just get so mad at you asking them if they were coked up. But you ask somebody if



"I think of mushrooms as the anti-cocaine."

they were high last night, and they're like, "Bro, *so high!*" Mushroom heads, they love talking about it. No one mentions meth—not even privately. Even meth heads, when they're doing meth, talking to other meth heads, they go: "No, I don't do that. Pass me the meth."

Would you say that mushrooms make you a better person?

Absolutely, they make you

a better person. They'll never kill you. Mushrooms go hand in hand with weed. Plus, this is a little-known fact: Mushrooms come in waves. If you're ever about to come down, smoke a jay—it'll

kick you in the fucking nuts and send you right back into overdrive. Weed makes everything stronger. So if you do mushrooms, have like six joints on you. Be ready for your adventures.

You've got several shows coming up on Comedy Central. What are you most excited about in 2015?

This is what I'm doing this year: One, annoying my neighbors by smoking constantly and all the way through the day. They're like, "What's that smell?" You *know* what it is, motherfuckers. It's better than cigarette smoke; go on with your day. I'm not putting a towel under my door—I'm a free American.

Anything else?

Well, Shroom Fest is at the end of August—the International Mushroom Festival. All over the world... it's kind of like St. Patrick's Day. It happens the weekend over the summer with the longest amount of moonlight. We went to Joshua Tree last year. People do it in England and Ireland and Australia; someone did it on a glacier once... It's just, wherever you are, everyone gets together all over the world, the same three days—so if you believe in that connection that happens with mushrooms, then you're connecting with them.

There was a meteor shower last year at Joshua Tree while we were there. It was fucking great. The sky was *lit up*. The sky was *on fire*.

Shroom Fest 2015. Mark your calendars.

Yeah. It's your new Christmas. ✨



Put It Where He Can See It

"The New York eighth is questionable. It's not measurable—I'm like, you didn't do this in front of me. In LA they do it right there so you can see, and our eighths are always heavy. I'm going back to LA to get my tolerance up again."



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“We changed our mantra, and the simple things started to work.”

DiFranco says. “*Nothing* went the way it seemed like it was going to go.”

Yet the band persevered, and the result is their finest, most focused and complete work to date. And even if *The Big Distraction* never receives its due, Ohio Sky are satisfied with where they are now. “When you realize the talent and the commitment level of the guys you’re working with,” Bashur says, “you come to the conclusion that you have to stick it out.”

As for the role of pot in their creative process, Bashur recalled a time when DiFranco and the band’s first drummer came out to visit him in Los Angeles. He turned them on to some of SoCal’s finest, but neither DiFranco nor the drummer was ready for the high-grade Cali green.

“I didn’t know nothing but dirt weed at that point,” DiFranco laughs, “the shit your buddy’s cousin got for him and comes in cellophane.” Thoroughly blazed, the pair wandered along Hollywood Boulevard like a couple of awestruck, ultra-stoned tourists. “I floated down that street, and it was like nothing I’d ever seen!”

“It was cool for me, too,” Bashur adds, “because I could see that in them and watch it happening.”

DiFranco shakes his thick mane of hair. “When you think back to the moment when your mind opened up a little bit—that was it.” ✱

Into the Wild Blue Yonder

Ohio Sky’s darkness clears for *The Big Distraction*. By Chris Parker

For musicians, the elusive truth is that making music for anyone’s satisfaction but your own is a fool’s errand. If it’s for someone else and they don’t want it, where does that leave you?

That insight drove the creation of Ohio Sky’s second album, *The Big Distraction*, which blends churning guitar riptides with sweeping elegiac textures. On it, the Cleveland band push beyond the stoner metal of their 2012 debut, *Curses*, into a creamier, more melodic direction that evokes psych-pop, post-rock and prog-metal in equal parts.

“Before we started this record, the mindset had to shift,” says frontman Vinnie DiFranco, whose soaring tenor/falsetto keys their shimmering sound. “We changed our mantra, and the simple things started to

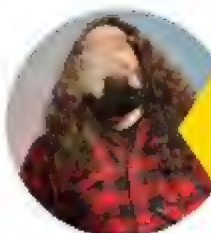
work. We even got signed to a little label when we decided we didn’t care anymore.”

It wasn’t only their mindset that changed: Ohio Sky shed a member during the run-up to the album, as bassist Ellsworth Turner decided to return home to Oakland. This left the former five-piece band in a quandary. Rather than add a new member who might mess up their chemistry, they decided to forge on as a quartet, with guitarist Michael Bashur taking over the four-string and keyboardist Patrick Finegan picking up more of the melodic slack.

The changes spawned intricate, dynamic rhythm parts and a less-cluttered sound, giving the music’s beauty and delicacy room to breathe while amplifying the effect of louder passages. DiFranco also grew more comfortable with his voice. “I feel like a

singer, whereas before I felt like a guitar player that had to sing,” DiFranco chuckles. The band even dropped their tuning to better accommodate his upper register. “It’s funny, for as heavy and as stoner as the old stuff is, this shit is tuned *lower*.”

The change in attitude was a necessity after the trials and tribulations they experienced with *Curses* (hence the title). They were robbed of equipment and masters on Christmas Eve, abandoned by one producer, frustrated by another, and cold-cocked by a label. “That entire album cycle was a fucking nightmare,”



Complementary Creativity

While writing *The Big Distraction*, Bashur and Bambic ironed out ideas separately from DiFranco and Finegan, comparing notes on weekends. “It developed a respect between the rhythm and the melodic,” DiFranco says.

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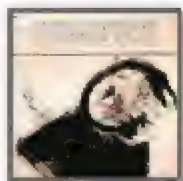


A Big Box of Beefheart

We still love you, you big dummy.

High Times readers are familiar with the mental processes one enjoys when cannabinoided: Creativity, free association, absurdity, puns and alliteration fluidly flow. And there are also a handful of humans who were born blessedly baked—they may (or may not) partake of pot, but either way, they travel through life with no mental barriers. So it goes with Captain Beefheart, heard here in a four-CD box set of his Reprise Records *oeuvre*.

It makes the work of us rock crits easier to utter pronouncements like “Beefheart was the bastard baby of Marcel Duchamp and Howlin’ Wolf,” because such lazy comparisons give readers an



Captain Beefheart

Sun Zoom Spark: 1970 to 1972
(Rhino)

idea of the turf to be trod. (I, of course, would never sink so low.) By 1969, Beefheart had recorded what is oft regarded as his magnum opus: *Trout Mask Replica*. But many fans believe 1970’s *Lick My Decals Off, Baby*—disc one of this set—to be its equal. Both share a mad intensity and fractured, shifting time signatures, but *Decals* also has an engaging humanity,

evident in “I Love You, You Big Dummy” and the plaintive instrumental “Peon.”

The second and third discs are *The Spotlight Kid* and *Clear Spot*, both from 1972. Sadly, *Trout Mask* and *Decals* were beloved by a mere handful of young freaks—some destined to spend their old age doing nothing else than reviewing them for *High Times*—so Beefheart, needing rent money, dialed down the intensity and smoothed over the frantic rhythm shifts in a failed attempt at commercial success. Yet 42 years later, both *Spotlight* and *Clear* remain gems. And disc four, accurately titled *Out-takes*, is so fine, these tracks should’ve been *in-takes*. As Tom Waits writes of Beefheart in the liner poem on this super-set: “Take what clues he left and ... go and build a strange home of your own.” *Michael Simmons*

MUSIC RECOMMENDATIONS



Public Enemy
It Takes a Nation of Millions / Fear of a Black Planet
(Def Jam)

➤ Both of these discs were hatched a quarter-century ago, but there’s no lack of vibrancy: Check Chuck D’s booming baritone. Forged in a moment before samples needed clearing, the production sizzles like one’s senses greeting New York City’s streets. It’s a sound that’s been unfashionable long

enough to be fresh again. Both albums feature Public Enemy at their finest—early hip-hop’s smartest, most politically on-point act. Even the added disc of B-side remixes and instrumentals is filled with surprising gems, and *Millions* features a third disc of accompanying videos.

Chris Parker



Panda Bear
Panda Bear Meets the Grim Reaper
(Domino)

➤ Animal Collective drummer, Daft Punk guest vocalist and solo artist supreme, Panda Bear (a.k.a. Noah Lennox) confronts death itself on his latest LP. The vocal stutter of “Mr. Noah” strangely satisfies. The kinetic “Come to Your Senses” asks “Are you mad?”—a question laced

with multiple meanings—while “Selfish Gene” and “Crosswords” unify minimalist synth with Lennox’s golden throat, evoking the late, great Beach Boy Carl Wilson. The static wave of closer “Acid Wash” ushers in a possible afterlife, as Panda Bear knows that death is but a beginning. *Mark Miller*

BOOK RECOMMENDATIONS

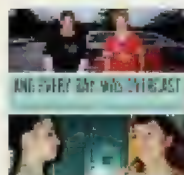


High Notes: A Rock Memoir
Richard Loren with Stephen Abney
(East Pond Publishing)

➤ Loren was a ubiquitous presence at the some of the greatest, most infamous happenings in rock’n’roll. In *High Notes*, he surprises and engages throughout—from the opening pages, in which he discloses his obsession with the spangled, outsized persona of one Mr. Liberace, to his visionary realization

of the Grateful Dead’s performances at the Grand Pyramids of Giza. Loren is such a fervent supporter of music and talent that his prose flies righteously above the gilded intersection of art and commerce to detail the breathless adventures that mark an extraordinary life.

Josh Chambers



And Every Day Was Overcast
Paul Kwiatkowski
(Black Balloon Publishing)

➤ *And Every Day Was Overcast* combines text with hundreds of photographs to tell the story of a boy’s coming of age in the swamps of South Florida. It vividly illustrates Kwiatkowski’s struggle against the monotony of everyday life, with anecdotes of fights, plenty of drug use, awkward sexual encounters

with young women and the inevitable havoc-wreaking of adolescence. The iBook edition includes an eerie original soundtrack that captures the balmy sounds of buzzing evening insects. This is a dark and uplifting, visceral and thoughtful, frightening and refreshingly honest book. *Claire Scimeca*

GAME RECOMMENDATIONS



Super Smash Bros.
Wii U
(Sora Ltd, Bandai Namco Games)

➤ The collision of franchises that had Nintendo fans piled on couches across the globe doing battle as their favorite stars in gaming history is back and stronger than ever. There’s no lack of depth in mastering the attacks of 49 unique Smash fighters. Well-timed move execution is helpful in

surviving the insanely fun chaos that the new eight-player mode delivers. This most mechanically balanced, visually optimized edition of Smash Bros. is also the most personalized, with diverse controller options, Amiibo figure support and a stage builder for the Wii U gamepad. *Tyler Merfeld*

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Aaron and Joe, the brains behind Cascadia High Carms, get all of their products lab-tested by Analytical 360 and use organic, locally sourced ingredients whenever possible. They've pledged allegiance to the independent nation of Cascadia, a place of such abundance and natural beauty that every visitor leaves inspired. Search out your best local apples and use the Green Buttery Piecrust recipe from *The Official High Times Cannabis Cookbook* to create a decadent delight! *Elise McDonough*

CANNABIS TURNOVERS

Caramel

2 cups sugar
1 cup brown sugar
1 cup cannabutter
1 cup milk
1 cup heavy whipping cream
1 cup corn, agave or rice syrup, or honey

Butter a 13" x 9" pan or line it with non-stick aluminum foil. Combine the ingredients in a heavy four-quart sauce pan. Cook over medium heat, stirring constantly, for 15 to 20 minutes, until the butter melts and the mixture comes to a boil.

Continue cooking, stirring constantly with a silicone spatula, for an additional 25 to 30 minutes—until a candy thermometer reaches 244°F, or a small amount of the mixture dropped in ice water forms a firm ball. At this point, you can dip apples in the caramel to make a caramel apple, or drizzle it on top of another dessert.

Remove the caramel from heat and pour into the prepared pan to cool. Once cooled, cut it into small, inch-long chunks.

Caramel Apple Turnover

2 Granny Smith apples, peeled and diced into small pieces
1/4 cup sugar
1 to 2 tsp. cinnamon
Pinch of cloves (to taste)
Pinch of nutmeg (to taste)
2 tbsp. flour
1 package puff pastry or store-bought piecrust

For the apple filling, combine the ingredients in a bowl and stir lightly until evenly mixed. Take a store-bought piecrust or puff pastry (as suggested earlier, you can also use the Green Buttery Piecrust recipe from the *High Times Cannabis Cookbook*—or your own favorite piecrust recipe!) and cut it into 4- to 5-inch squares. Brush the edges with water to seal.

Place one tablespoon of the apple mixture and one caramel, flattened to fit, so that half of the pastry's surface is diagonally covered. Fold the pastry over the filling to form a triangle. Crimp the edges with a fork and poke a small vent hole in the center of the pastry.

Brush lightly with water and sprinkle with cinnamon and sugar. Bake at 375°F for 20 to 30 minutes, or until the pastry edges are golden and the caramel begins to bubble. Remove from the oven, let cool and enjoy! *Stones 6.*



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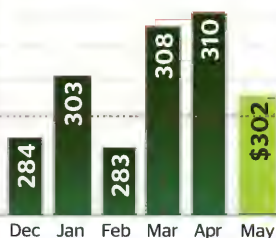
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US Price Index

YTD Average: \$301



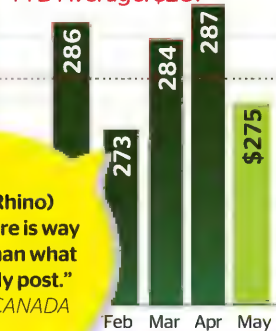
Kind Index

YTD Average: \$370



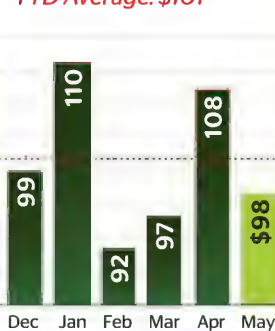
Mids Index

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Schwag Index

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Kentucky	Fort Campbell	Purple Kush	360
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Oklahoma	Oklahoma City	Black Cherry Soda	330
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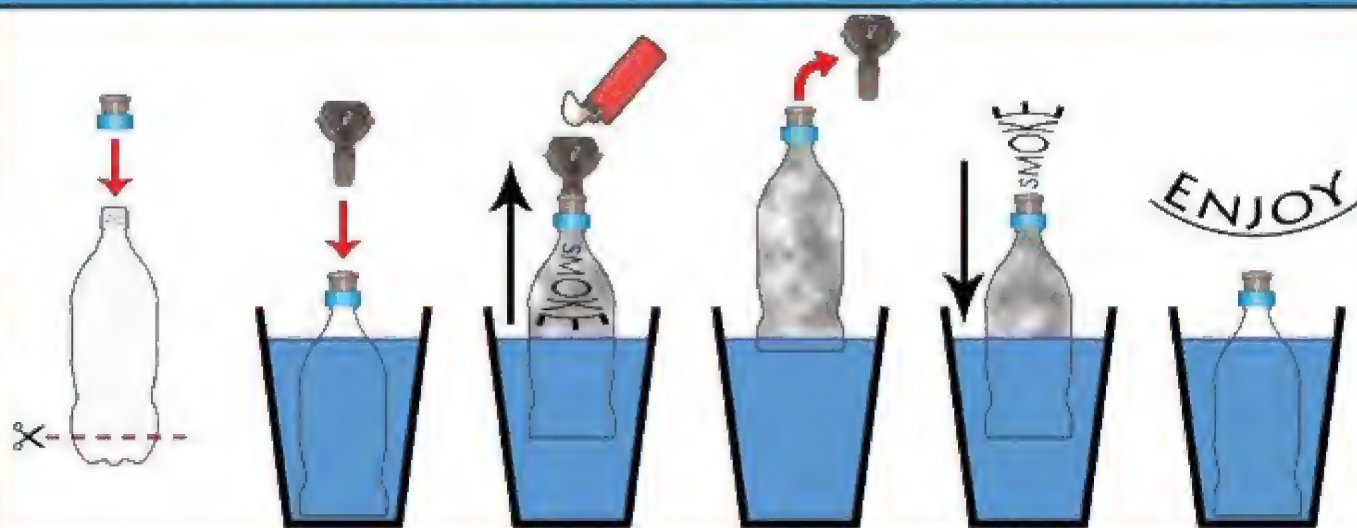
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Mid-September sun
warms a 3rd Generation
Family garden four
weeks from harvest.



Deep in the Emerald Triangle, 3rd Generation Family is readying its gardens for new pot crops. In the immortal words of Robin Williams: “Spring is nature’s way of saying, ‘Let’s party!’” *Story & Photos by Dan Skye*

You gotta wonder what motivated American pioneers to choose the most remote and rugged locales in creation to build their homesteads. California’s Mendocino County encompasses two million acres—approximately 3,500 square miles. U.S. Route 101 cuts a north-south swath through this terrain. On either side of the highway, a convoluted topography unfolds consisting of steep hills and hidden canyons populated by all kinds of wildlife, some of which is downright scary—like

mountain lions, tigers and bears. (Okay, maybe not tigers, but you get the idea.)

The first settlers arrived in Mendo in the early 1800s from Europe, Russia and China. After the 1849 Gold Rush came to an end, miners relocated throughout California seeking a bit of land to establish a small ranch or farm. Because the level land had already been taken, the newcomers had no choice but to seek out parcels in areas that were often inhospitable to settlement.

Today, 165 years after California was

granted statehood, Mendocino’s topography has barely changed. But now a spider web of graded roads track through the mountains and valleys, often leading to homes where cannabis growing is the family business—such as the gardens of 3rd Generation Family, located in northern Mendo, in the very heart of the Emerald Triangle. Comprising Mendo, Humboldt and Trinity counties, the Triangle has long been known as the nation’s—if not the world’s—top pot-producing region.



Brandon checks out his stable of healthy males.

As its name suggests, 3rd Generation Family is no recent arrival to the cannabis-growing scene. Brandon oversees 3rd Generation now, while Pops—his dad—is the patriarch lending years of expertise to the operation. Brandon's grandfather, who first grew family crops, has passed on.

Pops observes, "Way back in the day, the growers didn't do big crops—they had to do it under the trees and stuff. You didn't get very big plants. Back then, smoking marijuana was an under-the-table kind of thing ... hidden. Not everybody could even get it. Now everybody can."

As the legalization landscape evolves in California, 3rd Generation's farm—hidden away in the wilderness—has naturally expanded. "The funny thing is, I've been here for years and nobody even knew," Brandon says. "They knew Pops was here, but he did guerrilla grows all the time, so

nobody was the wiser. But nobody knew I was here, let alone growing."

Today, the farm consists of two 20-acre parcels divided into seven gardens for different operations. A 30' x 100' greenhouse is used for flowering in the summer, while hoophouses are used for winter crops. There are also three breeding chambers and a separate small greenhouse for males.

As you might expect, constant adjustments are being made to this already efficient operation, primarily because 3rd Generation Family has earned a fistful of awards for its strains in recent years.

"We just came off huge wins at the Emerald Cup in December and at the High Times Cannabis Cup in Seattle last September," Brandon says. "We've created a demand: The outcry for our vaulted heirloom seeds and award-winning

genetics has been huge."

Producing a family brand of seeds is now 3rd Generation's goal. Shiloh Massive, a well-known California grow expert, is the lead breeder, responsible for exotic strains like Cherry Lopez, Jurassic Haze, Adonai Kush, the Vern, Blu-Hammad Ali and numerous other hybrids created with 3rd Generation's heirloom strains, which have been in the family for years.

"We call our breeding team the 'Terp Hogs,'" Brandon says. "We're currently focusing on releasing the Zkittlez and Zkittlez crosses. We decided as a team to bring back Adonai Kush from the vault, along with our flagship strains, the OG Eddy Lepp and Cookie Stomper. We've been making our own seed stock for years now, but due to the demand, we've decided to bump up production from private stock in order to supply the masses with Dying Breed seeds. That's our seed line."

As the new planting season gets underway, Brandon is happy to share some 3rd Generation Family know-how with *High Times* readers.



This male plant is nearly ready to pollinate a healthy female.

Growing from Seed

"When deciding what to grow," Brandon says, "make sure to choose varieties that suit your region and your style of growing. For example, if you live near a coast, make sure to grow something mold- and mildew-resistant. For a full-term summer crop, we germinate our seeds in early March indoors. Once the seeds pop, they're planted in 3.5-inch pots and placed in a small hoophouse with minimal heat—around 60 to 85 degrees Fahrenheit. In early spring, it's essential to maintain temperature and keep light abundant. We use fluorescent lights as well as some high-pressure sodium (HPS). Up until their juvenile stage, we feed them only water and tea. Germinate at least two to three times what you need so you can cull the slow growers and males."



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Growing from Clones

“Clones have the advantage of uniformity—they’re replicas of the mother plant they were taken from,” Brandon continues. “Part of our crops are grown from clones to guarantee consistency. We cut the clones at the end of March. Some growers cut earlier than we do, but we feel that when you’re growing large plants that can possibly reach 8 pounds or more, clones that are cut too early are diminished in quality.”

“Keep in mind that when a plant is 10 feet tall, the energy needed for bud development must travel up the stalk of the plant to the individual bud location, which takes a lot of time. When a single plant is being forced to support an enormous amount of bud, that’s the true reason for a quality drop in super-large plants. It’s hard to keep a huge plant sufficiently fed so that it stays alive and healthy. We keep them smaller—around 4 pounds per plant—to ensure a resinous outcome. You’ve got to maintain the balance of quantity to quality.”

“Cut at least a third more clones than you need to—once again, in order to cull the slow growers. Keep in mind that clones are a little more sensitive to light and temperature variations than plants grown from seeds. We keep the clones under light until rooted, then transplant them into a small hoophouse in 5.5-inch pots. Be sure that when you change environments, the variations in heat and light are not too extreme.”

“Lights must be used on these plants to make sure they’re not tricked or stressed into flowering; you want the transition of hours to match natural daylight. So we create 18 hours of light and six hours of dark to mimic our sun cycle. We achieve this by backing off the light about three minutes a day until it matches the sun. Read the *Farmer’s Almanac* and match the light cycle to your area.”

Maintaining Mother Plants

“All gardens that rely on clones require strong, healthy mothers,” Brandon says. “Even if you don’t need the clones, you still must cut them in order to encourage new growth in the mother. If you don’t trim it, it won’t grow.”

“Cut off the top of plant to keep the mom short so that it doesn’t grow into the lights. Our mother plants get cycled out after we’ve exhausted them. But I keep the same mother plant for multiple years by root pruning.”

“Pruning mother plants is easy. There are two different styles I use to prune. Either I encourage growth and multiple shoots by cloning from the top in order to promote growth at the bottom, so they rise up for the next cut; or I discourage growth and cut in order to refresh the vegetation. I do this by trimming each branch back, leaving only two nodes below the cut. Growth may be slow, but they will bounce back very healthy. Spray and treat mothers preventively.”



These plants in veg will be moved outdoors in June.

Feeding During the Veg Cycle

“I’ve been amending my soil using a Husqvarna rototiller for multiple seasons without having to replace soils. I mix most of my fertilizer directly into the dirt of my 200-gallon cloth pots. I use one bag of Stutzman chicken manure, one-half bag of worm castings, one-half bag of coco, 5 gallons of perlite, 2 gallons of high-nitro bat shit, and 24 ounces of mycorrhizal Roots XL. It’s a ‘KISS’ concoction: ‘Keep It Simple, Stupid.’

“After planting, I water with Grower’s Secret organic 12-0-0 powder mix on the third watering and then only as needed, switching back and forth with teas and heavy-nitro bat shit for veg. I veg my seeds and clones from March to June. We plant between the first and 16th of June. Our water temperature is not too cold, not too hot—about 68 degrees—with proper pH. We have 275-gallon reservoir tanks for my teas and food mixes, which are aerated: You want to keep the water moving. Any deficiencies we address by using foliar sprays and brewing teas.”

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Watering

"We use a hands-off style of farming with a drip-line system that irrigates the entire garden. My rule of thumb is this: When watering, you never water too much—just too often. So let the plants dry before watering. The plants will communicate with you: Leaf up equals 'happy,' straight leaf equals 'okay,' drooping leaf equals 'not happy.' These signals are all strain-particular.

"Well and spring water are the best," Brandon adds. "Try not to use city water without proper filtration. I rough up the top layer of my soil to get water to evenly penetrate into the root-ball. If you don't do this, water will find the path of least resistance and flow right out and not evenly distribute its moisture."



A drip-line system waters 3rd Generation Family's hillside gardens.

The nursery nurtures future nugs.

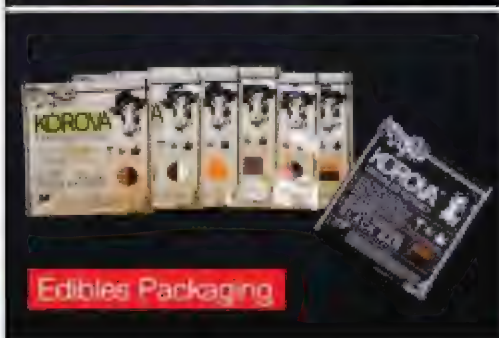


Transition to Flowering

"We change from nitro tea to phosphorous tea to create heavy flower and fruit development. You will begin to see signs of hairs or pistils showing a more stacked node spacing. Around the end of July, you'll notice early-flowering varieties showing their time to trigger. A problem I see again and again is that when the transition is made to flowering, people overfertilize and feed their plants too much sugar or carbs. Again, let the plant talk to you. Feed your plants less. A bodybuilder doesn't just sit at the table and pig out. Treat your plants the same way. A balanced diet equals happy trees!" 🌿



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10 Tips

for Auto-Flowering Pot Plants

Cannabis cultivators who choose to grow auto-flowering plants—i.e., plants that flower no matter the photoperiod—need to be aware of several important factors in order to harvest successfully. Auto-flowering plants bloom quickly, so growing them out to their full potential is a race against the clock. So why bother? Because you can avoid rain, frost, cops and rippers by growing “autos” properly. *Story & Photos by Guillaume Greenfizz*

1) Plant within the correct time window.

In the northern hemisphere, the summer solstice arrives around June 21 with 16 to 22 hours of light (18 hours in the northwest of France, for example). That's the point of maximum hours of sunlight per day, and at a better angle (i.e., more vertical) for full plant exposure.

In many areas, spring provides the right temperature to plant autos outdoors (a minimum of 58°F) at the end of May or beginning of June. If you plant (or transplant) them too early outdoors, they tend to produce small, premature harvests, especially since flowering will be accelerated by nights that are too cold. Below 45°F, you'll encounter exaggerated stretching and stunted bud development.

Given the usual flowering time for autos (most begin to flower at two to three weeks), it's wise to start them from mid-May to around June 10. This way, your plants get as much sunlight as possible each day, and their "flip" to flowering will occur as the length of days starts to diminish—a strong encouragement for them to start flowering vigorously.

2) Give your plants a healthy start.

Begin with proper seed storage: The best place is a clean fridge at 41°F to 46°F, with low humidity. All breeders store their seeds under these conditions, so don't reduce your own seeds' potential by using bad storage techniques!

You'll need to be especially careful during germination. Soak your seeds in a glass of purified water with a pH between 5.5 and 6.0, and stick around to notice how fast they fall to the bottom of the glass. Some will even sprout in less than five hours! A glass of tap water will do fine unless you live in Spain or areas with highly polluted *agua*. Always leave tap water out for 24 hours to allow the chlorine to evaporate.

Poke the seeds with your finger to push them under the water's surface, and don't let them soak longer than 12 to 24 hours. When you notice the first white germ sprouting, you can do one of two things. The easiest is to plant the seed directly into its final pot, which should be filled with a good soil mix available at your local grow shop. My preferences are Plagron Royalty-mix and Pro-mix, but any high-quality product, including Canna and Biobizz, will do. Also, place a half-inch layer of clay pellets at the bottom of the pot to aid in drainage.

Your second option is to put the popped seeds between two unbleached paper towels between two plates and keep them moderately moist. No water should drip from the paper towels; nor should they ever dry out. After a day or two, when you see that the seeds have cracked open and have a tiny root peeking out, carefully transfer them into Jiffy pots for the first 10 days of growth.

3) Provide your plants with the proper environmental conditions.

It's important to always dial in the humidity level. Keep it near 80% during the seedling stage, then switch to between 55% and 70% toward the end of the vegetative stage (15 to 25 days from sprouting). In the absence of expensive humidifying equipment, place a dome (such as you'd use for cuttings) over each plant. This is a cheap, easy and very effective method during the early stages of growth. A clear plastic bottle works perfectly for the first week or so, and you can use it indoors, outdoors or in a greenhouse. A simple ceramic ultrasonic system can solve humidity issues in a small to medium-sized area under six by six feet. In a greenhouse, you can set a pipe with nozzles to mist water in the growing area and get a 5°F to 10°F cooling of temperature. The misting system should be coupled with a controller that manages ventilation, temperature and humidity.



Once seeds have sprouted, get them into their growing medium.



Most auto-flowering plants begin blooming at around two feet tall.



In spring, cover your plants to keep humidity and temperature higher.



Feed auto-flowering plants lightly in order to avoid burning them.

Your medium needs to have the airiest structure possible, so anything you can add to improve aeration and water retention is a good thing.



Roots of this Afghan Express exhibit vigorous growth 8 days after germination.

4) Use the best growing medium possible.

No reason to cut corners here! Your harvest is directly linked to the quality of your genetics, grow medium, nutrients and environmental conditions. Remember, overwatering and overfeeding are the most common mistakes that a beginner can make.

Your medium needs to have the airiest structure possible, so anything you can add to improve aeration and water retention is a good thing: coco coir, clay pellets, perlite, vermiculite, etc. Here in Europe, we use Plagron, Canna and Biobizz, but in North America people seem to prefer Pro-Mix, FoxFarm and Sunshine Mix. Whichever option you choose, be sure it's light, airy and has a pH range of 6.0 to 6.5. Your auto-flowering roots will grow as though they're in a hydroponic system.

5) Don't overwater!

One of the worse things that can happen to a plant is too much water: The roots become suffocated and are unable to carry nutrients to the plant. An overwatered plant will show stunted growth, and beginners can sometimes misdiagnose this as a nutrient problem, causing them to compound the situation by adding nutrients—and more water—to an already suffocating plant and quite literally drowning it.

A good solution is to weigh your plants with their pots dry (after repotting, for example), add 5% or 10% to that weight, and use that number as a reference for when you need to water. Some manufacturers suggest watering plants with 20% of the volume of their containers. For example, a plant in a 3-gallon pot needs about a half-gallon of nutrient solution for every watering.

It's important that your roots have a period of relative dryness before they're watered again. If you're watering an outdoor guerrilla grow of auto-flowering plants, I suggest adding a drop of unscented dish soap per liter of water or nutrient solution. This aids in absorption and keeps the liquid from pooling at the top of your grow site.

6) Feed your plants lightly.

Use organic nutrients (it's harder to overfeed with natural ingredients), and remember that auto-flowering plants prefer light feeding in comparison to their photoperiod-determined counterparts. I've experienced issues a number of times with over-fertilized plants, but the most severe cases were always with the autos.

Given their smaller and more fragile root structure, auto-flowering plants can handle only half the usual feeding regimen of regular plants, which develop larger root systems. In a well-aerated "living organics" medium (one that contains beneficial bacteria and compost with humic and fulvic acids), your short-lived autos shouldn't need much feeding anyway.

Some boosters can be added to enhance root production, and many of these are available in grow shops. Here in Europe, many growers prefer House & Garden Roots Excelurator. If you have the space, a compost-brew juice aerated for 24 hours will give your plants a good boost.



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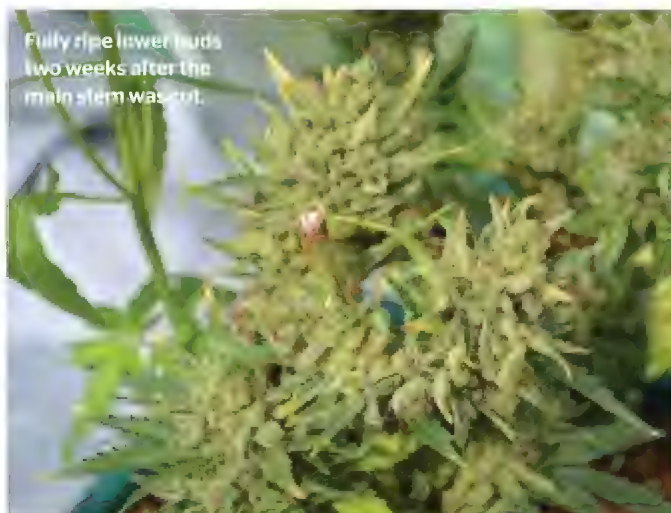
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7) Pinch and prune early, if at all.

Regular plants should only be pinched and pruned during their vegetative stage, and this rule applies to auto-flowering plants as well. Because the window in which to bulk up your autos is small, choose when to employ these techniques wisely. If your strains start their flowering stage super-early or didn't get a strong start to life, you should avoid pinching and pruning altogether.

For plants that have a longer flowering time, it is possible to pinch or prune—or, even better, to use a less traumatic technique such as LST (low-stress training) early on. Use fishing weights to weigh down the branches and expose the lower areas of the plant to light. You can also bend the branches carefully to get them more horizontal. Always remember that auto-flowering plants have a brief lifespan and won't recover well from stressful situations. It's wise to experiment with pruning regular plants before trying it on your auto-flowering ones.



Fully ripe lower buds two weeks after the main stem was cut.



A comparison of topped (above) and un-topped plants.

8) Harvest sequentially over time.

With all marijuana plants, the main tops are harvestable before the lower parts of the plant. If possible, wait six to 10 days between your first harvest of the main or top colas and the rest of the plant. This will result in added weight, stronger effects and better quality overall.

As they approach harvest, your plants must be closely monitored. Pay attention to the trichomes and take into account that wind, cold and heat can affect them outdoors. Exercise patience—a good rule of thumb is to give autos a week more of flowering outdoors than in, and don't rely solely on the breeder's recommendations for flowering times. For example, an early spring grow will slightly lengthen the plant's maturation schedule because the hours of sunlight are still increasing, and the plants feel it. If you plant them after the summer solstice, you will notice a shorter flowering time by a week or two.

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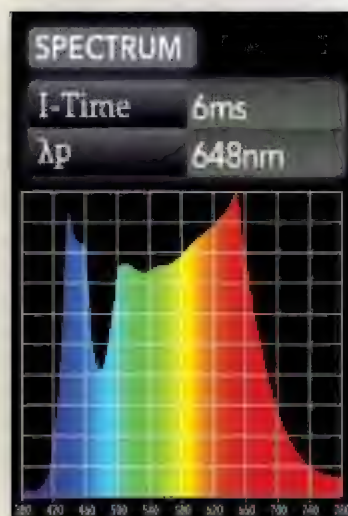
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9) Grow organic.

Conventional agribusiness has a typically short-term view on how to feed plants: by bombarding their roots with salts and minerals that can be absorbed quickly. With synthetic nutrients, over-fertilization is a real possibility, leading to serious problems and toxic soil.

Organic nutrients are of a higher quality than synthetic nutes, and a living soil stimulates the plants' digestion process, making nutrient particles more available to the roots. It's typically also harder to over-fertilize with organics because they're milder and more forgiving.

Your final product will burn a lot smoother if grown organically than if overdosed with mineral salts, especially if the plants are also given a good flush in the final week or two using pH-stabilized water with enzymes or a diluted compost juice. These days, a lot of organic nutrients are available on the market that contain extracts of seaweed, guano, molasses, cane sugar, coconut juice and worm compost. Also, it's always best to start with an organics-rich premixed soil.



Fully ripe but slightly overfed Afghan Express plants at the end of May.

10) Prepare your next grow.

At 50° north, you can harvest at least twice outdoors with auto-flowering plants, but only if you've started your second batch of seeds 20 to 30 days before your first harvest. This way, if you harvest your plants before mid-June, the seedlings you sprouted in mid-May will ripen before the end of summer (i.e., between the last week of August and the first week of September).

With a greenhouse, you can even attempt a third grow in northern latitudes. Sprout these seeds at the beginning of August, plant them in the greenhouse when the second grow ends (around the beginning of September), and then harvest before the middle of November. The greenhouse enclosure, if well vented, will keep these plants from suffering from nature's usual end-of-season tricks—mold, high humidity levels and early frosts.

Have fun and good growing! 🌿

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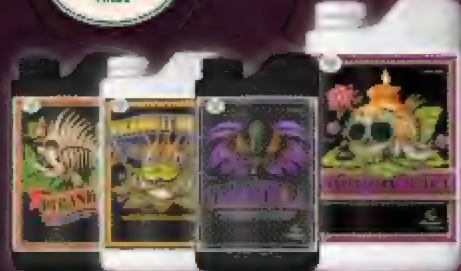
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Piranha—Expand the surface area of your plant roots by up to 75%. Help your crops obtain as much as 86% more nitrogen, 234% more phosphorus, and 75% more potassium. This means heightened grow, greater leaf area, more bud production, better bloom structure, and increased weight. Piranha Liquid also seeks and destroys harmful pathogens and molds, while strengthening crop resistance to stress.

Tarantula—Its beneficial bacteria inoculate the roots, safeguarding them by competing with and warding off harmful bacteria that can infect your plants. Reduces tissue damage from heavy fertilizer salts. Increases plant grow and yields by releasing grow and bloom cofactors and aiding chlorophyll, so your high-intensity lighting is more effective.

Microbial Munch—Maximize your microbes! Support, strengthen and maximize the benefits from all the beneficial microbes and fungi. It's a "superfood"—exactly what your plants need to transform into bigger, stronger, more resilient, and more beneficial creatures. In short, it's like putting them on steroids.

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Sensi Cal-Mag Xtra—If you're using base nutrients made by other companies, your crops could be deficient, leading to stunted grow and yellowing leaves. You can prevent that with Sensi Cal-Mag Xtra, the only calcium and magnesium supplement formulated with the exact Ca, Mg, and Fe ratios unique to the high-value plants we grow.

Revive—Guaranteed to rejuvenate your crops if they get into nutrient-deficiency trouble—which can happen if something unexpected and beyond your control occurs...or you're using inferior nutrients. Save plants in distress by adding it to your nutrient solution or using it as a foliar spray at the first sign of trouble. These rejuvenating substances flood the plant with healing nutrition. Use it at the first sign of trouble and your precious plants will get their best chance not only to survive, but thrive!

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& STALK
STRENGTHENERS
TRIBE

GROW MORE GLISTENING, STICKY, RESIN-GLAZED, TRICHOME-COVERED BUDS AND STURDIER, STRONGER STALKS AND BRANCHES!

Nirvana—Guarantees bigger yields and bigger, denser, heavier buds...while driving your plants to a faster metabolic rate. Experience increased yield, quality, aroma, color, trichome size, and resin production faster than you could have imagined without using synthetic nutrients.

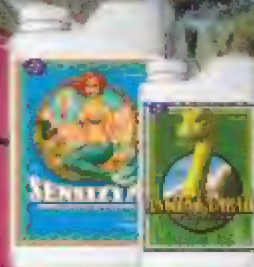
Rhino Skin—Increases trichomes and resin production for the perfect harvest. Your crops will stand up straighter and support bulkier, heavier buds. You'll get big, sticky, potent harvests with greater market value.

Bud Factor X—Triggers systemic acquired responses (SAR) within plants to produce markedly higher amounts of essential oils and terpenoids, which directly benefit taste, aroma, and resin production, giving you higher-quality crops with greater market value.

B-52—Amplifies overall plant metabolism, promotes strong root development, so plants grow and helps your crops fight off stresses such as intense light, cold weather, ozone, drought, and humidity.



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Ancient Earth Organic—A rich combination of humic and fulvic acid that will help transform your growing medium into a richer, healthier, more vibrant foundation for your crops while pumping up their roots. Also stabilize the pH and optimize nutrient delivery. Helps plants withstand disease, drought, and other environmental stresses.



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420 Forever!

April 20 is on the horizon. It's a day of celebration that only stoners could create!

Other than your birthday and the holidays, no date on the calendar is particularly remarkable—unless something historically momentous occurred on it. But even those dates fade from memory.

The Japanese attack on Pearl Harbor occurred on December 7, 1941. It was a “date which will live in infamy,” one that would supposedly never be forgotten. But World War II veterans lament that it has been, just like June 6, 1944—the date of D-Day, when the Allies staged the largest naval invasion in history to roll back Hitler’s war machine. Baby boomers won’t soon forget November 22, 1963—the day John F. Kennedy was assassinated. But, most Americans attach no significance to the date. In time, the meaning of 9/11 will fade, too.

But April 20—4/20—is the exception. It’s certainly not a national or even a religious holiday (although some in our community may differ); nor is it ever noted on mainstream calendars. But can you name any other non-historic date that receives much recognition and celebration in America—or, for that matter, internationally?

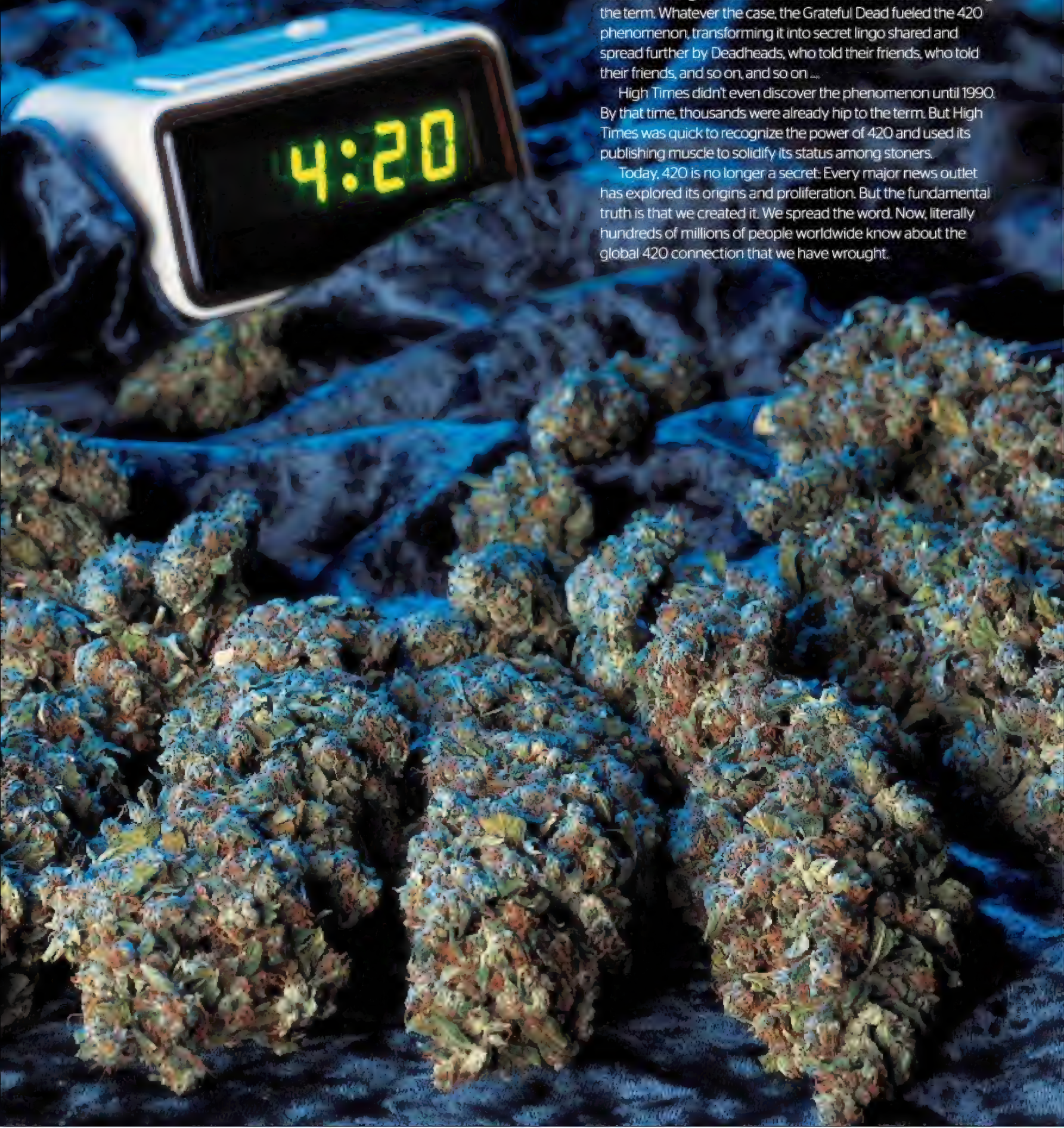


Our holiday is truly our holiday. The origins of 420 are well documented: In 1971, a group of San Rafael High School students in California made a ritual of meeting after school at 4:20 to toké up. They called themselves "the Waldos," because their meeting place was a wall near the school.

But how did 420 reach its present-day proportions? It was all of us, folks. We did it—with some help from the Grateful Dead. The older brother of one of the Waldos was a friend of Dead bassist Phil Lesh. In past interviews, Lesh has said that he can't recall 420's origins, but didn't doubt the Waldos' claim to coining the term. Whatever the case, the Grateful Dead fueled the 420 phenomenon, transforming it into secret lingo shared and spread further by Deadheads, who told their friends, who told their friends, and so on, and so on ...

High Times didn't even discover the phenomenon until 1990. By that time, thousands were already hip to the term. But High Times was quick to recognize the power of 420 and used its publishing muscle to solidify its status among stoners.

Today, 420 is no longer a secret: Every major news outlet has explored its origins and proliferation. But the fundamental truth is that we created it. We spread the word. Now, literally hundreds of millions of people worldwide know about the global 420 connection that we have wrought.





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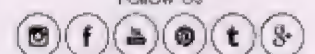


H3 PEN ATTACHMENT



U WATER PIPE
ATTACHMENT

Follow Us





4/20 Sports Facts

1916

The Chicago Cubs play their first game at Wrigley Field. (Wrigley's 100th season without a World Series championship gets underway in 2015.)

1939

Ted Williams of the Boston Red Sox takes the field. He becomes baseball's best hitter—ever.

1986

Michael Jordan sets an NBA playoff record with 63 points in a single game.

1988

The Baltimore Orioles go 0-14 to set the worst record to start a season. (They will go 0-21 before winning.)

1996

The Chicago Bulls finish the season with a record 72 wins.

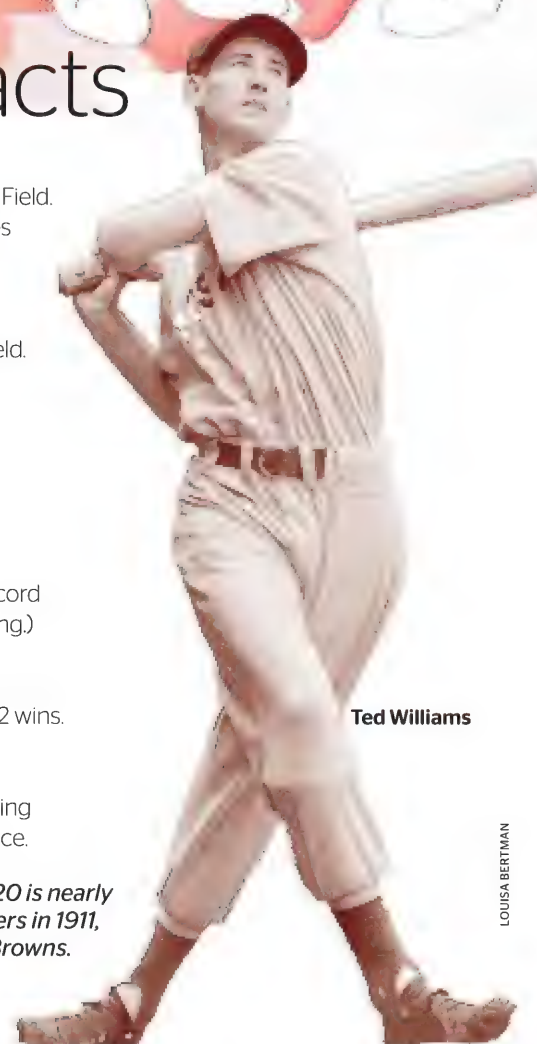
2008

Danica Patrick wins the Indy Japan 300, becoming the first female driver to prevail in an Indy car race.

Cool Stats: These days, a season batting average of .420 is nearly impossible, but Ty Cobb hit .420 with the Detroit Tigers in 1911, and George Sisler did it in 1922 with the St. Louis Browns.



Danica Patrick



Ted Williams



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The 420 Highway

Motor down New York State Route 420 in St. Lawrence County. Try Louisiana Highway 420 if you're in the area of Pointe Coupee Parish. State Route 420 in Ohio will hook you up with I-80/I-90. In Virginia, take a quick trip on State Route 420—it's less than three miles long! There's Pennsylvania Route 420 in Delaware County and the farm-to-market road in Hardin County, TX. Plus, Tennessee State Route 420 will actually take you through the town of Humboldt!

Weird Fact:

Interstate 420 was the designation for two interstates that never got built. Atlanta, GA, was denied its I-420 connection, and the planned I-420 bypass of Monroe, LA, was—well—bypassed.

In Canada,

cross the border at Niagara Falls and cruise on King's Highway 420 in Ontario—or travel on NB 420 Highway, a 22-mile stretch in northwest New Brunswick.

Ireland's R420

is located in County Westmeath and traverses the towns of Clara, Tullamore and Portarlington.

Japan's

Route 420 is a national highway. 41 miles long, it connects Toyota, Aichi and Shinshiro Aichi.

Air 420: Flying Too High!

1967

A Globe Air Bristol Britannia turboprop crashes at Nicosia, Cyprus, killing 126.

1968

A South African Boeing 707 crashes at Windhoek, killing 122.

2012

A Pakistani Boeing 737 crashes near Islamabad, killing 127.

Weird Fact:

In 1988, the U.S. Air Force's stealth bomber was officially unveiled. (How can we be sure?)

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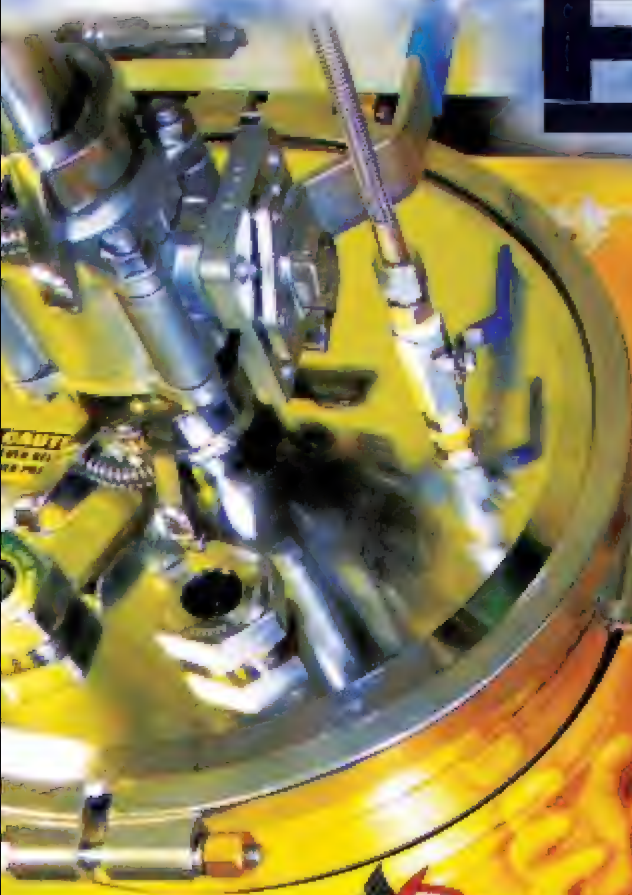


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4/20 Birthdaze

CELEBRANT	REASON FOR FAME	REASON FOR INFAMY
 Miranda Kerr (b. 1983)	Her underwear	Dated Justin Bieber
 Carmen Electra (b. 1972)	Her body	Her body of work
 George Takei (b. 1937)	Played Hikaru Sulu in <i>Star Trek</i> ;	Viral video for ip syncing Bonnie McKee's song "American Girl"
 Crispin Glover (b. 1964)	Eccentric onscreen characters	Eccentric offscreen character
 Adolf Hitler (b. 1889)	Evil	More evil
 Don Mattingly (b. 1961)	New York Yankees star	Losing big games as Los Angeles Dodgers manager
 John Paul Stevens (b. 1920)	Former US Supreme Court justice	Last year, stated that pot should be legal. Hurray!
 Joan Miró (b. 1893)	Famed Spanish painter, sculptor and ceramicist	Joan was actually a guy!
 Mother Angelica (b. 1923)	Founded the Eternal Word Television Network	Opined that abortion deprived us of those who would otherwise be alive to "defend the nation"
 Edie Sedgwick (b. 1943)	Andy Warhol's "It" Girl	Tragic accidental suicide
 Jamie Gillis (b. 1943)	Porn legend	What do you think?
 Zeljko Joksimovic (b. 1972)	Serbian singing superstar	We can't understand a word
 Killer Mike (b. 1975)	Outspoken social-activist rapper	Called Bill Clinton, the Bushes and Obama "talking heads telling lies on teleprompters"



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EXPOGROW - SATIVA

BIO - CUP SPAIN

LA S.A.G.E.

HIGH TIMES

MK-ULTRA

DENVER CUP - INDICA

BUBBLEGUM

EXPOGROW - RESIN

EXPOGROW - SATIVA

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1948

New York City doubles the subway fare from 5 cents to 10 cents. It's now \$2.50—an increase of 2,500 percent since then.

1971

The Supreme Court upholds the use of busing to achieve racial desegregation. America gets to see racial prejudice up close and personal!

1974

The Troubles (1968-1998), a 30-year period of conflict in Northern Ireland involving republican and loyalist paramilitaries and British security forces, claims its 1,000th victim.

1992

Time Warner signs Madonna to a \$60 million recording contract.

1999

At Columbine High School in Littleton, CO, two students kill 13 people and injure 24 others before committing suicide. Copycat 4/20 plans of mayhem are now commonly quashed.

2010

Deepwater Horizon, a BP drilling rig stationed in the Gulf of Mexico, explodes, killing 11 and causing a massive oil discharge. Though BP agrees to pay \$11 billion, contamination persists.

2010

The Court rules making it illegal to [redacted] of animals [redacted] violates the [redacted] free speech.

2011

[redacted] pres it illegal to [redacted] 2-mile evacu- [redacted] around the [redacted] nuclear plant. [redacted] ver, however, is [redacted] legal.



4/20 Buzzkill

April 20 has often been no cause for celebration.

1769

Ottawa Chief Pontiac, who led the Native American resistance against the British military, is murdered by a Peoria tribesman in Cahokia (Illinois).

1775

On April 19, the first battles of the Revolutionary War take place. The siege of Boston begins on 4/20.

1888

Hail kills 246 in Moradabad, India.

1914

Soldiers kill 33 during a miners' strike in Ludlow, CO.

1920

Tornadoes kill 219 in Alabama and Mississippi.

1945

Soviet troops enter Berlin, signaling the end of World War II in Europe. They celebrate by raping thousands of women.

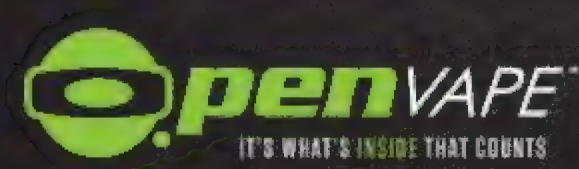
Pontiac gets
totaled.



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420 Esoterica

The origin of 420 has been detailed and debated, but does the number hold any deeper numerological or spiritual significance?

Music

Bob Dylan's "Rainy Day Women #12 and 35" has often been cited as a possible source of 420 (multiply the numbers and you get 420). Then there's Crosby, Stills & Nash's "4 + 20," but the opening line—"Four and 20 years ago"—actually refers to the birth of the song's subject. Although the nursery rhyme "Sing a Song of Sixpence" mentions "four and 20 blackbirds baked in a pie," we doubt a ditty penned in the 18th century was the source of 420. Abe Lincoln didn't invent 420 either, even though his Gettysburg Address starts "Four score and seven years ago ..." ("four score" is four 20s!).

Penal Codes

For years, many stoners believed that 420 was a police code for marijuana-related infractions, though no such designation exists anywhere in the US. But in several Asian countries—including India, Pakistan, Bangladesh and Myanmar—Section 420 of the penal code deals with cheating and fraud. For this reason, in South Asian popular culture, the term "420" refers to a trickster or con man—as illustrated by Salman Rushdie in his book *Midnight's Children*, in which he writes: "420 has been, since time immemorial, the number associated with fraud, deception and trickery." There's even an old Indian film about a con man titled *Shri 420* (translation: Mr. 420).

Numerology

According to the principles of numerology, 420 reduces down to the number six ($4 + 2 + 0 = 6$). Under said principles, six (and, by extension, 420) is the "perfect number," signifying health, harmony, balance, luck, love and beauty. Six is also recognized as the symbol of Christ consciousness, the sixth sense and the "third eye," as represented by the six-pointed star (a.k.a. the Seal of Solomon, Star of David or Merkabah). So, basically, 420 leads to enlightenment? We could've told you that!

Or how about this? According to Yoseph Leib ibn Mardachya, author of *Cannabis Chassidis: The Ancient and Emerging Torah of Drugs*, under the ancient Judaic numerological science of Gematria—which supposedly reveals the true nature of an object by replacing the letters of its name with corresponding numbers—the Hebrew word for "smoke" adds up to 420.

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Superstar Strains to Smoke on 4/20

Celebrate 4/20 in style by smoking pot varieties named for some of marijuana's greatest pioneers and champions. These strains immortalize four of the most important elder statesmen of cannabis, so enjoy the smoke while honoring these cherished titans of our industry. *By Danny Danko*



Nevil's Haze

1st Place, Seeds, High Times Cannabis Cup, 1998

Pioneering breeder Nevil Schoenmakers founded the Seed Bank of Holland, the first marijuana-seed company to advertise in High Times. He went on to develop a number of strains that remain famous to this day, including the Silver Pearl, Northern Lights #5 x Haze and many others. His greatest feat, however, turned out to be his namesake, Nevil's Haze (also sometimes spelled "Neville's Haze"), an almost pure sativa that Nevil stabilized made up of Thai, Colombian, Indian and Mexican genetics originally bred by the Haze Brothers of Northern California. This classic Haze provides a pleasant, piney-flavored punch that's perfect for energetic daytime activities.

Contact: greenhouseseeds.nl or mrnice.nl

Dr. Grinspoon

[Just checking: This never won anything?]

Another almost pure sativa, this one is named for the brilliant cannabis researcher and author, Dr. Lester Grinspoon. The 86-year-old Harvard professor and author of *Marihuana Reconsidered* (1971) and *Marihuana: The Forbidden Medicine* (1993) debunked the government's false science regarding pot use and exposed the Lysenko-ism of the era's attitudes toward cannabis. This old-school, long-flowering sativa enhances the senses and inspires awareness, much like the intellectual it's named after. Patient growers will find that it's well worth the wait, and experienced smokers will love the amazing high, which seems to have no ceiling—the more you smoke, the higher you go!

Contact: barneysfarmshop.com

Jack Herer

1st Place, Sativa, High Times Cannabis Cup, 1999

High Times Top 10 Strain, 2010

This phenomenal strain is named for another absolute giant of marijuana activism, the late, great Jack Herer, who would have turned 76 this June. Jack wrote *The Emperor Wears No Clothes* in 1985, heavily influencing every activist who came after him and earning himself the moniker "the Emperor of Hemp." Sensi Seeds honored Jack with his own namesake strain, and it stands as a tribute to a great freedom fighter. Tireless activism requires a pot variety with pizzazz, and Jack Herer's got it all: great flavor, a beguiling, spicy scent, tremendous resin production and intense potency. Medical marijuana patients suffering from anxiety disorders and fibromyalgia report that Jack treats their symptoms well.

Contact: sensiseeds.com

Jorge's Diamonds #1

High Times Top 10 Strain, 2008

This one is named in honor of Jorge Cervantes, my mentor and predecessor in writing the cultivation question-and-answer column in High Times. We all owe a great debt to the man who sowed useful growing information for many years through his magazine articles, books and website. Jorge's Diamonds #1 is an indica-dominant strain that also takes its moniker from the extremely resinous trichomes that make the buds gleam like diamonds. Growers love this variety for its heavy yields and strong resistance to pests and molds, but smokers will luxuriate in the many nuanced taste notes and powerful high.

Contact: dutch-passion.nl

The Bible Says ...

Daniel 4:20

"The tree you saw, which grew large and strong, with its top touching the sky, visible to the whole earth."
(A garden that obviously needs some camouflage.)

Mark 4:20

"Others, like seed sown on good soil, hear the word, accept it, and produce a crop thirty, sixty or even a hundred times what was sown." (A crop that's 100 times what was sown? Please, tell us the "word"!)

1 Corinthians 4:20

"For the kingdom of God is not in word, but in power."
(Especially hydro.)

Jack Herer



HIGH TIMES
HAPPY 420





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420 Cupcakes

Set a whole new level for 4/20 partying: Make your party so stony that your guests will be sure to forget it!

Stoner Simple: "Legalize It!" Cupcakes
Back in the days of Richard Nixon, who officially declared the "War on Drugs," a recipe consisting of cake mix, instant pistachio pudding mix, Cool Whip and ginger ale was dubbed "Watergate Cake With Cover-Up Icing." Here's its 420 equivalent.

Cupcakes

1 box yellow or white cake mix
1 package (3.4 ounces) instant pistachio pudding
3 eggs, lightly beaten
1/2 cup melted unsalted butter
1/2 cup melted cannabutter
1 cup lemon-lime seltzer or soda
1 cup chopped pistachios (garnish)
1 cup flaked coconut (garnish)
3-4 drops of green food coloring

Icing

1-1/2 cups heavy whipping cream
1 package (3.4 ounces) instant pistachio pudding

Preheat your oven to 350°F and prepare your cupcake pans by adding paper cupcake liners. Using the bowl of an electric mixer, whisk together the box mixes of pudding and yellow cake. Add the melted cannabutter and straight butter, then turn the mixer on low. Add the beaten eggs and mix to combine, then add the soda slowly until thoroughly incorporated. Add a few drops of green food coloring and mix.

The resulting batter will be very thick, so use an ice-cream scooper to measure out even dollops into the baking cups. (The scooper will greatly help with the thick batter—or you can use a heaping tablespoon and a rubber spatula to get the batter into the cups.) Fill each cup about 3/4 full and bake for 20 to 25 minutes. Insert a toothpick into the center of a cake; if it comes out clean, your cupcakes are done. If it still seems gooey inside, return to the oven for a few more minutes. Remove your cupcakes and allow to cool completely before icing.

Spread the chopped pistachios on a baking sheet and toast at 300°F for 10 minutes. Add the coconut and toast for two more minutes before removing from the oven.

For the icing, whip the heavy cream in the electric mixer on high until soft peaks form—about 5 minutes. Add the pistachio pudding mix plus a few drops of green food coloring and mix to combine. Use your frosting quickly or it will continue to thicken and get harder to spread. Top each cupcake with the creamy icing and sprinkle the toasted pistachios and coconut on top.

Woo-hoo! Enjoy your cupcakes! *Stones 24.* 🌿

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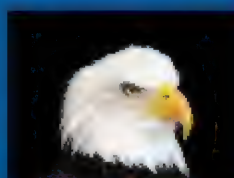


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animals



In "Rainy Day Woman #12 & 35," Bob Dylan sings:
 "But I would not feel so all alone. / Everybody must get stoned."
 And that includes the animal kingdom!

Story by Sirius J., Illustrations by Noore Yazigi

*Noah, seeing a he-goat eat sour grapes and become intoxicated
 so that it began to frisk, took the root of that vinebranch and,
 after having washed it with the blood of a lion, a hog, a sheep,
 and an ape, planted it and it bore sweet grapes.*

—SHALSHELET HA-ABBALAH, AMSTERDAM, 1697

We've all heard about birds getting drunk on fermented berries or cats and their love of catnip, but that's just the tip of the iceberg. Tripping reindeer, giddy goats, sedated flies, rolling jaguars, psychedelic primates—the list goes on and on. Creatures get high, and they seek out substances to get them there. In fact, it's starkly evident that the drive to alter consciousness is as natural as those for food, water and sex.

Surprisingly obscure but extraordinary discoveries have been made—and ancient wisdom has resurfaced—that confirm a method to the madness: Throughout history, humans have discovered psychoactive and medicinal plants by observing animals use them. Indeed, some of the world's most widely used psychoactive plants have been the subject of very credible legends involving animals eating them, and curious humans following in their footsteps.

on drugs



spirit of the jaguar

The late Richard Schultes, a revered ethnobotanist, wrote that "the repetitiveness with which snakes and jaguars occur in ayahuasca visions has intrigued psychologists."

Jaguars, the magnificent jungle cats, were apparently the source of the veneration of the yagé vine. Yagé contains psychoactive alkaloids and is an essential ingredient in ayahuasca preparations. The ancient wisdom of Amazonian shamanism states that the yagé vine was discovered by observing jaguars eat it and then go into ecstasy. Ayahuasca is sometimes taken before a hunt to channel the spirit of the jaguar.



flying reindeer

Certainly the world's most historically fascinating and mysterious mushroom, *Amanita muscaria*—the fly agaric or toadstool—goes way back. Reindeer feed on a variety of mushrooms during the Siberian summer, but their all-time favorite is the fly agaric. After eating it, they prance around or wander aimlessly, twitching their heads. The indigenous people of Siberia discovered the fly agaric from watching reindeer eat it. They began to use it for their vision quests, in which sensations of flying are not unusual.

These mushrooms have developed a symbiotic relationship with the pine tree and often grow beneath it. The ancient lore of Northern Europe indicates that these “red presents under the tree” may have inspired the Christmas legend of Santa Claus and his flying reindeer.

The Italian ethnobotanist Giorgio Samorini may have discovered the origin of the mushroom's English name, “toadstool”: When flies are attracted to the colorful mushroom and land upon it, they go into a temporary coma. Slow but clever toads know to sit near the toadstool, waiting for flies to fall under its spell. Historically, people have also placed the mushroom's caps on their windowsills as an insecticide, apparently in the belief that the flies were dying (although they were actually in a stupor).



the iboga connection

When primatologist Michael A. Huffman was studying chimpanzees and their use of medicinal plants in Tanzania, he came across other animals using plants not only as medicine, but for intoxication as well. Stories of wild boars, porcupines and gorillas seeking out and digging up the roots of the iboga plant, a potent hallucinogen, caught his attention.

Chimpanzees eating a plant that cures their upset stomach shows a level of knowledge we didn't know they had, but why would a gorilla eat a root that causes nausea and vomiting? Could it be for the hallucinations? Gorillas are famously wise in their use of plants and consume several that are cardio-stimulants when needed.

You probably thought humans were bananas, but mandrills might be the craziest primates around. Charles Darwin observed: “No other member in the whole class of mammals is colored in so extraordinary a manner as the adult male mandrills.” When a mandrill wishes to fight another, he doesn't just rush into it: He'll first find an iboga plant, dig up and eat some of its roots, then wait for around an hour for the full force of the hallucinogen to hit him before engaging in battle.

As for humankind, African tribes use iboga in a ritual known as *Bwiti*, a rite of passage amplified by the complex spiritual insights that the plant provides.





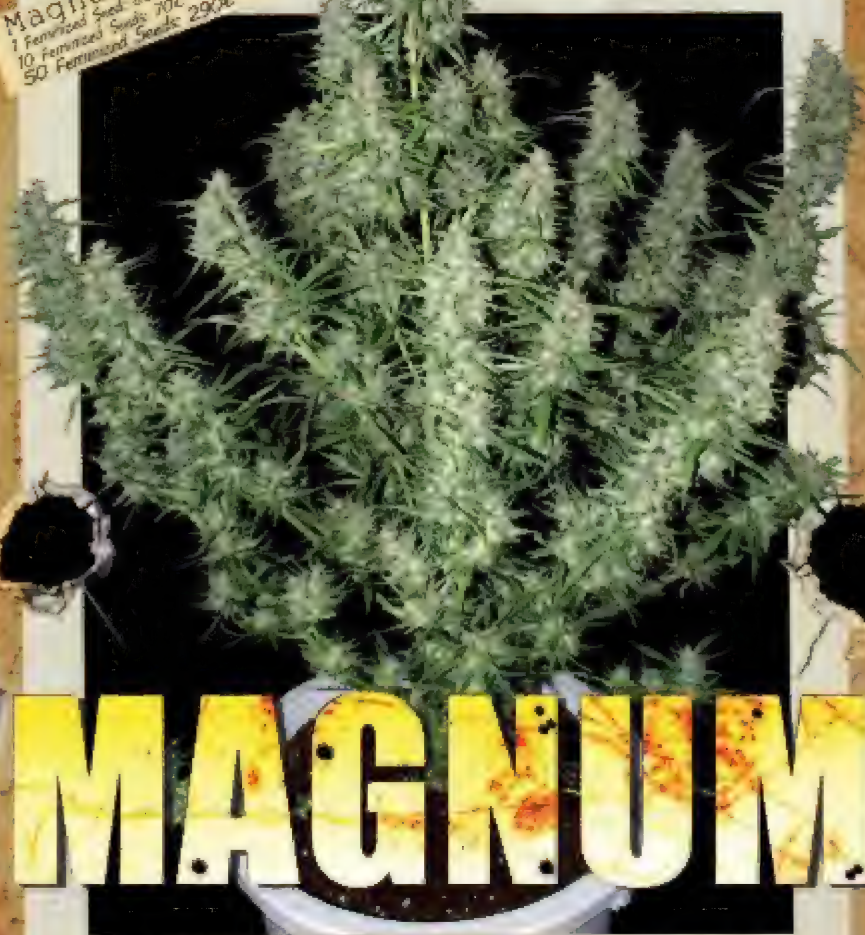
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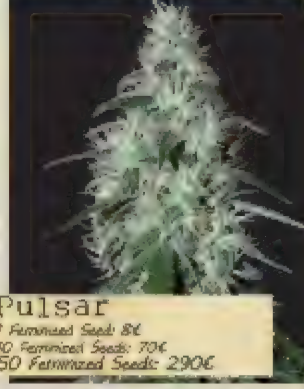
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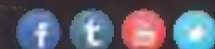
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Goats: The Unexpected Fiends

Goats have been getting higher than humans for a long, long time. Some mammals may accidentally consume psilocybin mushrooms, but there's no question goats do it on purpose. They even get possessive about them: One goat kicked Giorgio Samorini in the chest for intruding on his herd's patch of shrooms. It then proceeded to devour everything the poor scientist had collected.

It's certain that goats appreciate psychedelics, but they seem to have a fondness for uppers as well. Goats were nibbling on *khat* leaves and coffee beans long before humans got into the act. The stories regarding the discovery of both by humans start out alike: A devoted goatherd gets curious about his animals' strange behavior, finds the leaf or red berry they're eating, and then decides to try it himself. Nowadays, *khat* use extends from West Africa through the Arabian Peninsula. And, of course, coffee is a quasi-addiction for hundreds of millions of caffeine fiends.

Anthropologists suggest that Native Americans discovered mescal beans, which have been ingested for over 9,000 years, by watching animals eat them. And goats love mescal—after eating a few beans, they tremble and fall to the ground, only to wake back up and eat some more.

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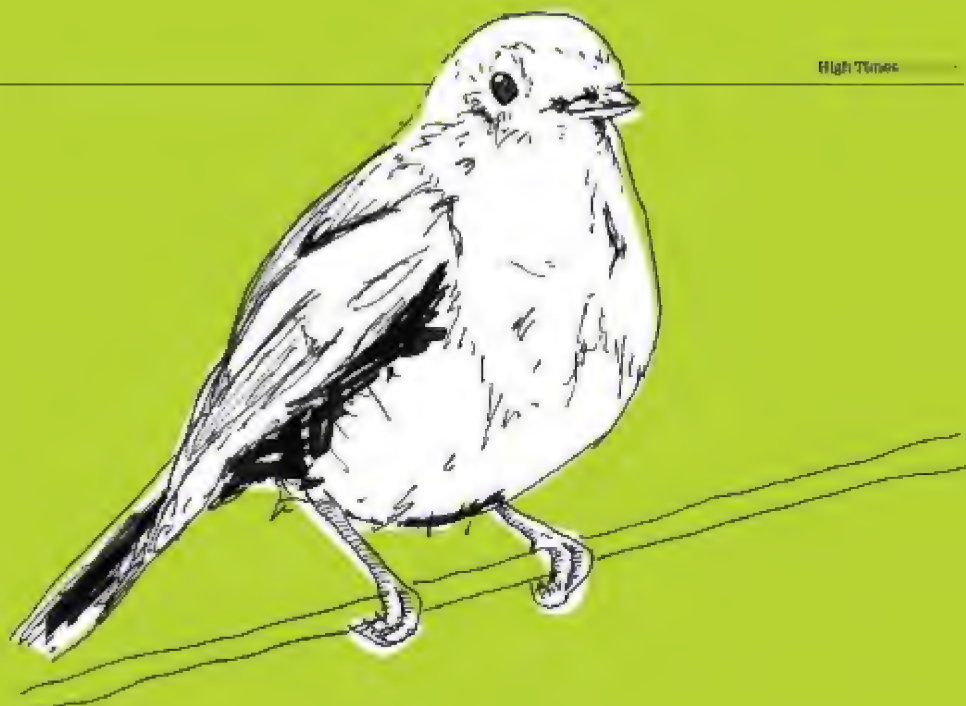
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The Birds and the Bees

The drive to get lifted is natural: Some flowers even seem to have evolved to reward the insects that pollinate them with a trippy treat. Datura flowers contain tropane alkaloids, which are powerful, dissociative hallucinogens for humans, but the flower nectar makes moths drunk—and keeps them coming back for more. A similar thing happens with bees and certain species of tropical American orchids; in this case, however, the active compound is unknown.

In North America, robins flock to eat California holly berries. The result is confusion and disorientation, which may result in collisions with windows and cars. About three berries make a meal for a robin, but they'll consume as many as 15. While the birds are definitely intoxicated, there's no alcohol involved in their haziness, and the active constituent of the berries remains a mystery.



Cedar waxwings eat a lot of berries too, but one piques their interest especially—the firethorn berry. As their name suggests, waxwings like to keep their plumage neat. After a few firethorn berries, though, their feathers get a bit rustled and they'll make a tipsy display of courtship: A male presents the female with a firethorn berry, which they pass back and forth until one of them eats it.

Everybody's Doing It

Animals have been getting high long before we were even a species. From insects to elephants, creatures great and small like to get high. And if they don't, we bet they wish they could. ✨



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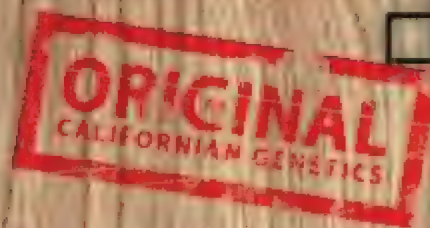
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Prohibition:

THE CHILD OF RACISM



In July, Eric Garner died when New York City cops put him in chokehold for selling single cigarettes on the street.

The inherent violence and racism underpinning drug prohibition makes the increasing use of militarized police against poor and minority communities inevitable. If we want to get beyond national tragedies like Ferguson, ending the Drug War is an important first step. *By Russ Belville*

One day, an unarmed black man is minding his own business. But the police are convinced he's up to no good, and so they rush him. The man tries eluding them, but he's outnumbered and gets taken to the ground. Despite his protests of innocence, the cops cuff him forcefully and watch as the helpless black man exhales his last breath. No charges are filed against any of the officers.

Last summer, the death of Eric Garner after being placed in a chokehold by NYPD officer Daniel Pantaleo was

another tragic flashpoint in America's long, bloody history of police violence against minorities. But the preceding paragraph actually describes another tragic death—20 years earlier.

On March 25, 1994, the Boston Police Drug Control Unit raided the apartment of a 75-year-old Methodist minister named Accelyne Williams. The cops chased him into his bedroom and cuffed him. While on the floor, Williams suffered a heart attack and died. The police were acting on a tip from a drunken informant who misremembered the location of an apartment he'd visited,

which was allegedly filled with weapons and drugs.

In August, the killing of Michael Brown by Officer Darren Wilson in Ferguson, MO, shocked the nation. The overreaction by Ferguson police to the protests that followed—including the use of tear gas, SWAT teams and armored vehicles—caught many observers by surprise. But for anyone following the War on Drugs over the past four decades, the death of yet another unarmed black man and the aggressive, militarized police response are both the inevitable result of drug prohibition.

Prohibition Creates the “Crime”

That the War on Drugs is waged disproportionately against minorities and the poor is incontrovertible. Groups like the American Civil Liberties Union and the Marijuana Arrest Research Project have documented how African-Americans and Latinos are far more likely to be arrested for drugs, more likely to be convicted, and more likely to serve a longer sentence.

Often, these statistics are accompanied by the assertion that blacks and whites use drugs at the same rate, but the reality is even worse. Although the most recent government survey shows that 10.7 percent of all African-Americans and 9.5 percent of all white Americans used an illegal drug in the previous month, those numbers don't reflect the fact that young people are the ones usually arrested for drugs. According to the FBI's *Uniform Crime Reports* for 2013, people 25 and under make up 43.3 percent of all drug arrests—and in that age group, 16.5 percent of blacks and 17.8 percent of whites used an illegal drug in the previous month, according to the *National Survey on Drug Use and Health* for 2013. So we actually have a situation in which more white people use drugs at the ages when most drug arrests happen, yet more black people end up in prison.

Prohibition Creates the “Usual Suspects”

If you're over a certain age in America, the first media stereotype you associate with Italian-Americans isn't Super Mario or *Jersey Shore*; it's *The Godfather* or *The Sopranos*—portraits of the Italian-American as mobster. Of course, very few Italian-Americans match the Don Corleone or Tony Soprano archetype (or Luigi or Snookie, for that matter). So how did this stereotype begin?

The prohibition of alcohol in the 1920s coincided with a wave of Italian immigration to the United States. From 1880 onward, over four million Italians arrived on our shores. But the American immigrant experience is often harsh: Italians, like the Irish before them, were treated as second-class citizens, and job opportunities were scarce. For some, such as an Italian immigrant's son named Al Capone, the huge profits to be made from illegal alcohol sales were “an offer he couldn't refuse.”

However, operating in an illegal and highly competitive market meant that Capone and his colleagues had to protect themselves with violence—which meant guns. The police, facing a set of

increasingly organized and well-armed criminals, ramped up their own weaponry. Police raids were often conducted in the dead of night, and innocent people sometimes got caught in the crossfire during gun battles in the streets.

Fortunately for America, we recognized that alcohol prohibition was doing

Prohibition Amplifies Racism

Drug prohibition itself was born of anti-immigrant racism against the Mexicans and Chinese (communities that were demonized for using marijuana and opium, respectively), as well as racism against cocaine-using blacks, who were gaining visibility in the cities where jazz

and blues music took root. As a result, drug prohibition has fostered a racist “justice” system that has produced more black men under correctional control today than were enslaved in 1850, and more unarmed black men killed by police than were lynched by the Ku Klux Klan.

Recently, researchers tested people of all races in a social-science experiment. Images were flashed on a screen showing two men in a confrontation; the men were either both white, both black, or white and black. Sometimes one of the men was holding a weapon; at other times, a harmless object (like a cell phone); and sometimes nothing at all. The

experiment's subjects were then asked to recall which of the men, if any, had a weapon.

Consistently, people would “over-criminalize” the black man in their memory. A black man with a harmless object was more often thought to be holding a weapon. People would even recall the black man holding a weapon when it was the white man who had it, or even if neither man had a weapon. This pattern held true regardless of race—that is, even black



Eighty years after Prohibition, protesters' signs now read “We Want Pot.”

Though it was eight decades ago, those 13 years of Prohibition still fuel the Italian mobster stereotype, despite the existence of mobsters of all ethnicities.

nothing to stop drinking and everything to empower violent criminals, so we ended Prohibition after only 13 years. But though it was eight decades ago, those 13 years of Prohibition still fuel the Italian mobster stereotype, despite the existence of mobsters of all ethnicities.

So what do you suppose four decades (and counting) of the War on Drugs have done to shape the perception of black men by the police charged with enforcing modern prohibition?

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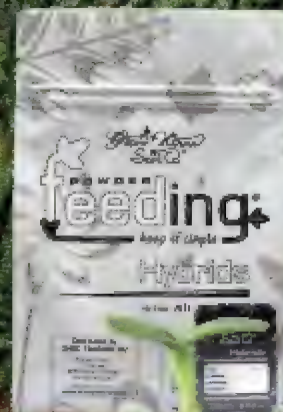
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people were more likely to over-criminalize black people.

There is more than drug prohibition to blame for this. The enduring legacy of slavery and segregation forced black people into the lowest economic stratum and into the worst neighborhoods with the fewest resources. Where poverty and desperation exist, crime often thrives. There are many reasons why the NYPD patrols East New York more than the Upper West Side. One of them is that there is more street-level crime, which is easier to prosecute.

So today, after 40 years of police making millions of low-level drug arrests of young black and Latino men; after the violent battles between black and Latino gangs to control the street trade; and after 40 years of television and movies saturated with black and Latino men in the role of criminals, is it any surprise that Americans associate violent criminality with dark skin?

Unfortunately, that's a prejudice that existed long before the War on Drugs. However, drug prohibition amped up the perceived threat of black criminals, while the real-life violence became an enduring staple of TV news and "reality" shows.

Drug prohibition amped up the perceived threat of black criminals, while the real-life violence became an enduring staple of TV news and "reality" shows.

Prohibition Makes Racism Profitable

In 2010, the *Village Voice* reported the story of a former NYPD cop who had secretly taped his colleagues and superiors at work. What emerged was a series of embarrassing reports highlighting the pressure on officers to meet quotas for arrests and shakedowns.

This pressure contributes to the use of stop-and-frisk, a tactic in which police stop young blacks and Latinos for no reason and subject them to a pat-down. When the cops suspect that the person is carrying drugs—such as the officer smelling weed or feeling a pipe or

baggie—the person is told to remove the items from his pockets or bag. Once the drugs are in plain view, it's a criminal offense that leads to an immediate arrest.

As noted earlier, more young white people use drugs than blacks—but how and where they do makes all the difference. Young people of color who hang out on city streets and in parks are easy targets for police.

In addition to helping meet arrest quotas, the War on Drugs is also profitable for police departments through the menace of asset forfeiture. When a person is investigated for possession, that person's cash or property may be seized if the cops believe they were the ill-gotten proceeds of the drug trade. That person doesn't even need to be charged with a drug crime for their property or cash to be seized. Under this Kafkaesque scenario, the *property* is guilty until the owner can prove its innocence.

As if free stuff from shaking down real and imagined drug users in minority neighborhoods wasn't enough, a federal program exists called the Edward Byrne Memorial Justice Assistance Grant. Byrne grants go to police agencies based on their success in combating crime. Since violent crime and

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In other words, whatever your plants accumulated while growing—you are now smoking. That's why you need to know how to protect yourself and your patients from potential medical marijuana toxicity.

The entire story, along with many other little-known, yet vitally important facts are revealed in a new Bulgarian Academy of Sciences white paper titled:

**"ELIMINATING HEAVY-METAL TOXICITY IN MEDICAL MARIJUANA, TO PRODUCE PATIENTS' MEDICINE SAFER THAN DRINKING WATER...
... WHILE RAISING BUD WEIGHT, THC, AND CANNABINOIDS"**

The author of the white paper, Julian Karadjov, PhD, reveals facts medical marijuana growers absolutely MUST know. Here are just a few...

- The little-known fact that makes Cannabis totally different from other plants and why not knowing this can endanger the lives of your patients!

- Why the nutrients you feed your plants could actually be turning them toxic (make sure you check your bloom boosters for this one common ingredient that could be toxic)

- Exactly which heavy metals are toxic and how to protect your patients from ingesting them (there are some heavy metals that are completely harmless. Get the complete list inside)

- Surprising plant tissue sample results of Berlin, Hash Plant, and White Rhino strains of medical marijuana (goes completely against what most growers think is needed to maximize size, weight and potency!)

- The TRUTH about so-called "Pharmaceutical Grade" salts and chelates

- Why you can't trust regulators and other government "watch dogs" to make sure the hydroponics nutrients you feed your plants are safe

- The 2 biggest MYTHS about natural and synthetic chelators and their role in toxic metal absorption

- How to guarantee—with 100% confidence—that your medical marijuana is as pure and harmless as filtered drinking water

- How the University of Mississippi achieved 21% more yield from their cannabis plants with one simple change to their feeding program

- How to nearly DOUBLE the amount of THC and other cannabinoids your plants produce the very next run you start (new test results from Hedron Analytical Inc.)

- As seen on TV: the dangers of medical marijuana cadmium poisoning (and how to help your patients completely avoid this risk!)

And there's more too... the dangers of "home brew" hydroponics nutrient formulations ... African marijuana cadmium dangers... plus other little-known facts most growers never hear about.

The bottom line is: if you grow medical marijuana and care about the safety of your patients at all (or you use marijuana yourself) then you must read this white paper.

It's free to access and available online.
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Raising the Bud Weights... and Reputations... of Top Growers

property crime have been on the decline, the police have turned to drug arrests to pump up their crime-fighting statistics. Along with Byrne grants, post-9/11 federal programs have been outfitting local police departments with armored vehicles and other weapons of war, sup-

those raids targets the wrong address and an innocent person winds up getting shot by police, a rotten cop can plant drugs at the scene to justify their actions—as was the case with Kathryn Johnston, a 92-year-old black woman gunned down in her Atlanta home in 2006.

weakened) to this day.

Ending drug prohibition alone will not magically undo four centuries of ingrained anti-black prejudice. But we will never fully recover from America's original sin as long as the Drug War apparatus remains in place.

The aggressive policing of minority neighborhoods can't begin to be addressed until black neighborhoods are no longer fertile ground for statistics-padding, low-level drug arrests—or for the criminal gangs that subsist on drug-trafficking profits.

Simply put, drug prohibition creates crime and violence that otherwise wouldn't exist. Economics dictate that the risks of crime and violence will be borne most by the underprivileged. That combination means that whether it's alcohol and Irish or Italian mobsters, or drugs and black or Latino gangs, the results of prohibition will always be the same. It's a long way until we reach our goal of "a more perfect union," with liberty and justice for all. But we'll never get there as long as prohibition drives us backward. ✱

You can hear The Russ Belville Show at radicalruss.com.

Whether it's alcohol and Irish or Italian mobsters, or drugs and black or Latino gangs, the results of prohibition will always be the same.

posedly for battling terrorism. That military hardware has been used for years in serving search warrants for drugs.

Then there are the opportunities that drug prohibition creates for police and prosecutors with a malevolent agenda. A cop (or his K-9) can claim he detected a marijuana smell, and that's enough to bypass any Fourth Amendment protections against an illegal search. And anonymous tips about drug activity are all that it takes for most judges to sign off on a "no-knock" search warrant. When one of

The Drug War Must End in Order to Fight Racism

America's problems with race were planted 400 years ago when the first Africans were brought here as slaves. Our founding fathers simultaneously declared that "All men are created equal" and that an enslaved African constituted only three-fifths of a white man. One hundred and fifty years ago, during the Civil War, 11 states attempted to secede to maintain this system of white "superiority"—a condition that persists (though much

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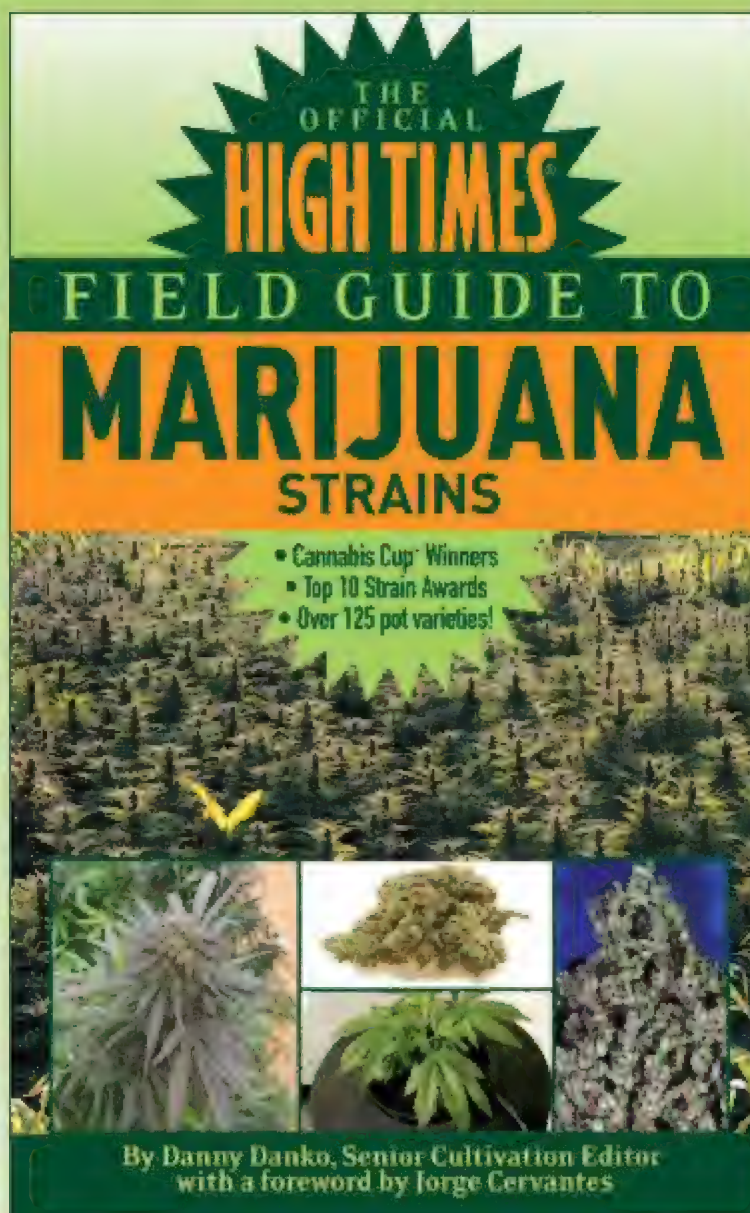
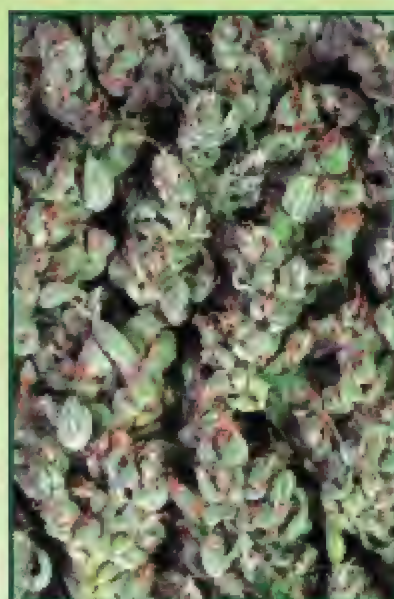
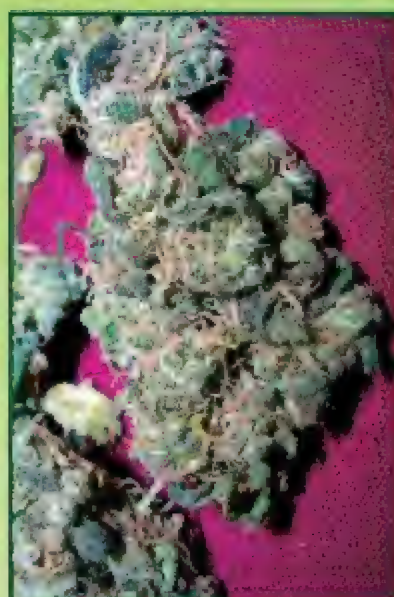
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INTERVIEW BY
DAN SKYE

JOAN JETT

THE HIGH TIMES INTERVIEW



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HOW MANY WORDS CAN YOU USE TO DESCRIBE JOAN JETT? SHE'S THE ONE WHO SHOWED THE WORLD OF ROCK THAT GIRLS CAN DO IT JUST AS WELL AS BOYS. SHE'S THE SPITFIRE WHO BURST ONTO THE MUSIC SCENE IN HER TEENS AND HAS MAINTAINED HER PLACE AT THE TOP OF THE ROCK PILE FOR FOUR DECADES—FIRST AS A MEMBER OF THE ALL-FEMALE BAND THE RUNAWAYS, AND NOW AS THE LEADER OF JOAN JETT & THE BLACKHEARTS.

RECOGNIZED AS ONE OF THE WORLD'S BEST ROCK GUITARISTS—JETT IS CURRENTLY ON THE ROAD WITH HER BAND, OPENING FOR THE WHO ON THEIR "THE WHO HITS 50" NORTH AMERICAN TOUR. AND ON APRIL 18, SHE'LL BE INDUCTED INTO THE ROCK AND ROLL HALL OF FAME, IMMORTALIZED FOR ANTHEMS LIKE "BAD REPUTATION" AND "I LOVE ROCK 'N' ROLL." JUST BEFORE HITTING THE ROAD, JETT SAT DOWN TO TALK WITH *HT* ABOUT THE NATURE OF SUCCESS AND THE PATH THAT SHE HAS FOLLOWED.

When you were 13, you moved from Maryland to California. That must have involved some culture shock.

It did. My dad was an insurance guy, and he got transferred to southern California. West Covina was my first stop. It was really different than the East Coast—just the whole vibe, the laid-backness.

Did California nurture your aspirations in music?

Absolutely. I don't know if you ever heard of this club back in the '70s—Rodney Bingenheimer's English Disco on the Sunset Strip. I was reading about Rodney's in *Circus* magazine when I was back East. I wanted to be the sort of person—I don't know—that was different. I was the weirdo in school; people use to look at me and howl "Diamond dog!" as I walked down the hall. Rodney's catered to early '70s British glitter rock, like David Bowie and T. Rex and Slade and Quatro—all this stuff that American radio didn't really touch. Rodney's catered to that kind of music, and it catered to teenagers. It was a teenage club; they didn't sell booze or anything—it was just a disco. You were like *too old* if you were 21, you know?

What do you think accounts for The Runaways being able to break through and be successful?

What we were doing was so different: We weren't just saying, "Hey, we're female!"—we were saying, "Hey, we're *teenage girls!*" We were girls growing into women, and we wanted to access all those things, really, that anybody would, whether you were a boy or a girl—your sexuality, your discovery of music and dance and culture.

What accounted for the Runaways' success was that we had a band that could actually play, and we had a manager—Kim Fowley—who



What are we going to do: be 21 and still call ourselves "The Runaways"?

was very good at getting press and knew a lot of people and was able to get us a record deal. But we still had to prove it. You can get a record deal and all that stuff, but you still gotta go out on the road and play with all these other bands that can play. You have to hold your own, and I thought we did that very well.

After The Runaways broke up, did you think your career was over, or were you confident that you could move forward?

Oh, man, I thought my career was over for sure. I mean, it was a very down time. But you can't look back and say, "Oh, it was a bad thing that we broke up." It was kind of natural. What are we going to do: be 21 and still call ourselves "The Runaways"? So just like we grew into the band, we also grew out of it. We grew apart, and I didn't want to get fired from a band that I started, so I just kind of called it quits—New Year's Eve, 1978.

It was pretty devastating because I felt the whole city was laughing at me. I thought everybody was saying, "We

told you it wouldn't work! We told you girls—we told you, we told you, we told you! Hah!" I mean, I was really down and depressed.

How did you climb out of that?

I was just lucky. About that time, I met Kenny Laguna, who came to work with me to write songs for a project that The Runaways had signed to do—*We're All Crazy Now*—kind of based on The Runaways' career. The movie was still going through, and I didn't want to get in trouble: My manager at the time knew Kenny. We wrote eight songs in three days, but more importantly, we became best friends—like instantly. You just energetically feel it.

You and Kenny founded Blackheart Records in 1980. Can you explain his influence?

Man, I'd have to think about that for a minute. He was in a lot of bands growing up. He's got so many strengths; he's a very musical guy and very knowledgeable. He can do a lot of things—a great person, great musician, very intelligent, and he knows business. He's been playing since he was 11 or 12. He was with Tommy James and the Shondells and a lot of bubblegum groups. He learned by paying attention to what was going on. He's very business-savvy, which I think a lot of people in the business *aren't*; I'd like to be more business-savvy myself. But there are strengths that we have together.

You're touring with The Who. It must be pretty amazing to be onstage with rockers you grew up on.

Absolutely. It's incredible and really special—it brings the whole story full circle. After Kenny and I met and were working together, we had written our first album and nobody would take us seriously; nobody would give us the time of day. Kenny knew a lot of powerful people

and asked for some favors, but nobody could do anything. Then Pete Townsend suggested talking to Bill Harrison, his manager, and Bill said to go to their studios in London, do what you gotta do and pay them when we can. That was the most amazing thing, and we recorded what became *Bad Reputation*. He threw us that lifeline, and we *did* pay them back. That sort of generosity from that type of band—I thought it was really incredible. And now it's come full circle, playing with The Who on their anniversary tour. I'm getting chills talking about it!

Is that kind of loyalty rare in the rock world?

I think it's rarer, for sure. The business has changed so much; loyalties have shifted. Some are more loyal to their own selves and to the almighty dollar.

How has the rock world changed?

The word "rock" has kind of been taken away. Food rocks, parties rock, clothes rock—everything rocks. But *rock*, the label, the word, has been watered down. It doesn't mean anything ... everyone's a rock star, even if they're a pop star or any kind of star. Star chef? You're a rock star! The meaning of that word has been taken away. I'm quite happy with just being a musician.

This is a huge year for you. On April 18, you're being inducted into the Rock and Roll Hall of Fame.

Oh, man, that's another thing that's so hard to take in. It's a great thing, really a great thing. But I just want to emphasize that I play music because I love it, like so many musicians. So to get an award like this ... I don't know. It's not really anything I aspired to, particularly—initially, it wasn't even there. Then they created this Rock and Roll



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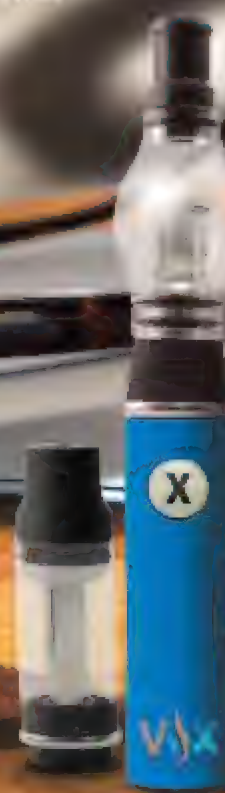
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Hall of Fame, but you can't focus on that; you just have to go out and play your music and be who you are.

You've been named on many people's list of top rock guitarists. Now you're coming off recent shoulder surgery. Has guitar playing contributed to your shoulder problems?

I think a little bit, maybe. But I chalk it up to the fact that, in my whole life, I've been pretty much a tomboy. I play ball; I was pretty rough when I was a kid. In The Runaways, Sandy West, the drummer, and I would wrestle like crazy, insane people. And in the early '90s, I went to the Baltimore Orioles fantasy camp, where, if you're a fan, you can spend a couple weeks' worth of spring training. You get a uniform and have teams; you play two games a day and get coached by the major-league coaches. It's really incredible. Everybody probably thought it was funny that I was trying to kill myself doing this stuff: "Hey, Joan! You're not a pro. Ease up—you're going to hurt yourself." But I went as far as I could. I wanted to pitch. Mike Cuellar [the former Orioles pitching star] taught me how to throw a screwball. He said, "If I teach you to throw it, you gotta throw it, no matter where it goes!"

High Times sent you a batch of high-CBD balms and lotions. How did they work out for your recovery?

Useful, very useful. I don't understand why marijuana was made into this evil thing so long ago. Beyond whether or not you smoke joints, you can't deny the medical benefits of legalizing. It's been

definitely found to work for various issues. I saw an interview yesterday with a woman whose son was hurt in some kind of accident—head injury. He'd have these pain explosions, and none of the drugs that the doctors could give him relieved it. But his mother gave him some pure cannabis oil, and that stopped his pain. But now the mother's possibly in trouble. This kind of stuff is ridiculous—*ridiculous*. And that's just on the medical side of things.

On the personal side: Of course I smoke pot. It's not a big deal. I think you have to be responsible,

you'd better try, because if it's your dream and you don't give it a shot, you're going to always wonder if you could have done it. If you do take a shot and it doesn't work out, at least you felt secure in your own self and took the shot.

After The Runaways, I was completely laughed at by everyone... Kenny can verify that. We formed our own label and then we put it out, and everybody turned it down. We got 23 letters that said, "Good idea, good idea, but no songs here." What they didn't hear was "I Love Rock



I don't understand why marijuana was made into this evil thing so long ago. Beyond whether or not you smoke joints, you can't deny the medical benefits of legalizing.

like with anything.

What do you think your influence has been musically?

It's not all just about the music. The music's about anything in life, anything you wanna be. People are always telling you what you can't do—you come up with an idea and it's "Oh, why would you do that?" I think sometimes that it's just a natural, human thing to try to stop people from doing what they want to do: "You can't, you can't, you can't!"

I say you *can*—and

'n' Roll," "Crimson and Clover," "Do You Wanna Touch Me" and "Bad Reputation." Either the record companies don't have people with ears, or they don't listen to the tapes they're sent. Whatever the reason, they just send out excuses.

It turned out good for us, even though at the time it was devastating. It forced us to improvise. Kenny took a big chance by taking his 3-month-old daughter's college savings and printing up 500 records. We'd sell them



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out of the trunk of our car at local gigs. The 500 went *whack*—like that. Then we printed 500 more, and that was beginning of Blackheart Records. You gotta take the bull by the horns.

You've always maintained a very strong feminist stance. What's your advice for women in general?

Believe in yourself. It's self-evident: If you believe in yourself, you know it; when you *don't* believe in yourself, you know it too. You gotta work on that. Believe me, man, there's times when I feel very frail. In fact, I do right now, because I just lost one of my animals, who I had for 14 years.

I'm sorry.

It's thrown me for a loop. Thank you very much—but, you know, it's like I gotta figure it out, I gotta figure it out...

You're a spokesperson for PETA and Farm Sanctuary. Where does your activism spring from?

Well, we're all the same, I think, but animals don't judge. They're just pure. If the lion wants to eat you, it's not because he's mad at you. He's hungry, you know what I mean? It's just his instinct. I just find animals to be very pure, and I relate to them well. I've had all sorts of animals from the time I was very young. My parents were surrounded with animals, and I just love them. Animals and little kids, I get along with really well—they're not afraid of me. They look at me and they're sort of intrigued.

What led you to become a devout vegan?

I was a *major* meat-eater all my life—red meat, bloody, rare steak. I was like that when I met Kenny. Kenny has been a vegan since he was 11: He saw the bodies in a butcher shop and then he saw his dog. But it didn't really

sink in for me then—I don't know why. I mean, someone who's such an animal lover, why wouldn't I go, "What the hell am I doing?"

It wasn't until the late '80s, when I was reading this book called *Diet for a New America* by John Robbins. He wrote about the food industry from the farm to the table. His interests weren't necessarily about the animals, but he exposed the process. I was on the road anyway, though—I wasn't eating a lot of meat because it was too heavy. I was eating a lot of breakfast-like food: pancakes, French toast and stuff. But by the end of the book, I didn't want to eat any meat at all. I really got the connection. All of a sudden, it made sense, and I'm like: "Why am I doing this? I love animals!"

Final question: What accounts for your popularity in Japan?

I can't... When The Runaways went over there in '77, we were stunned. We didn't know what to expect. We were swarmed—but instead of boys, it was all girls. It was incredible! They would rock the car! I was excited about it, but some of the other girls were kind of scared. It was on the edge of scary because we were unprepared for it, and we didn't have the security that we should have had. In Japan at the time—I'm not sure what it's like now—women were very much second-class citizens. But The Runaways were taking our stances, and these girls would come out and scream for us. It was quite an amazing tour.

Did you ever think it might have been because you resemble those superhero girls from Japan—the shag hair and big eyes? Has anyone ever suggested that?

No, no. But that's pretty cool, though. ✨

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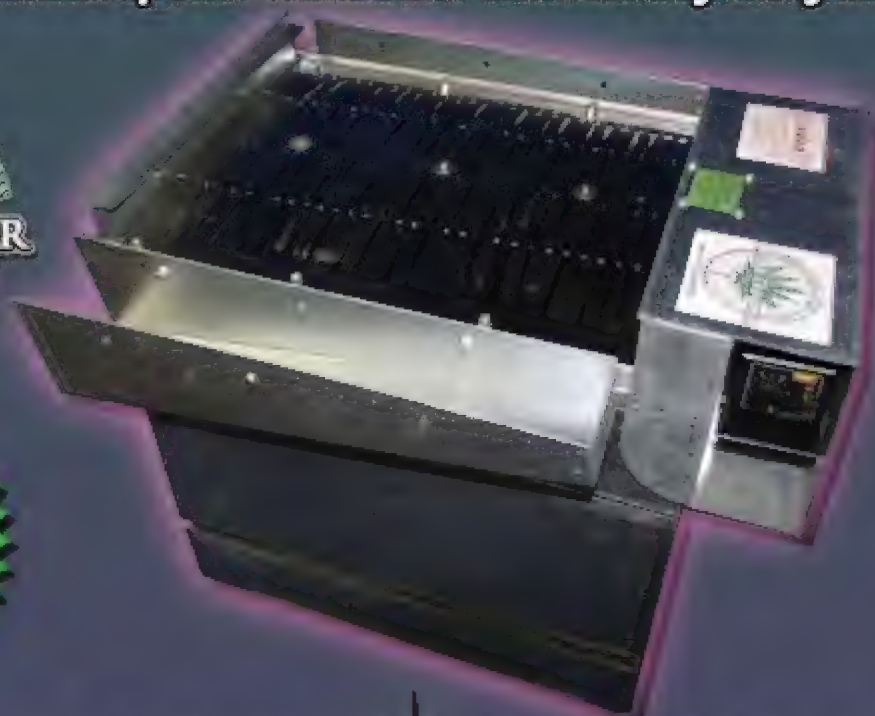
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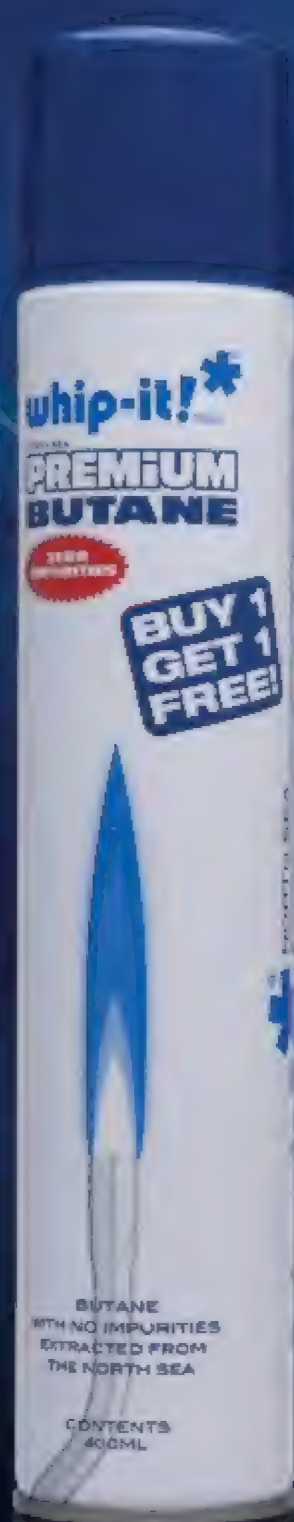


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Glandular trichomes, powdery mildew, burnt leaf tips, old seeds and more ...



Send your cannabis cultivation questions to [@dannydanko](https://twitter.com/dannydanko) or deardanko@hightimes.com.

SUBJECT: **All About Trichomes**

FROM: **Tri Curious**

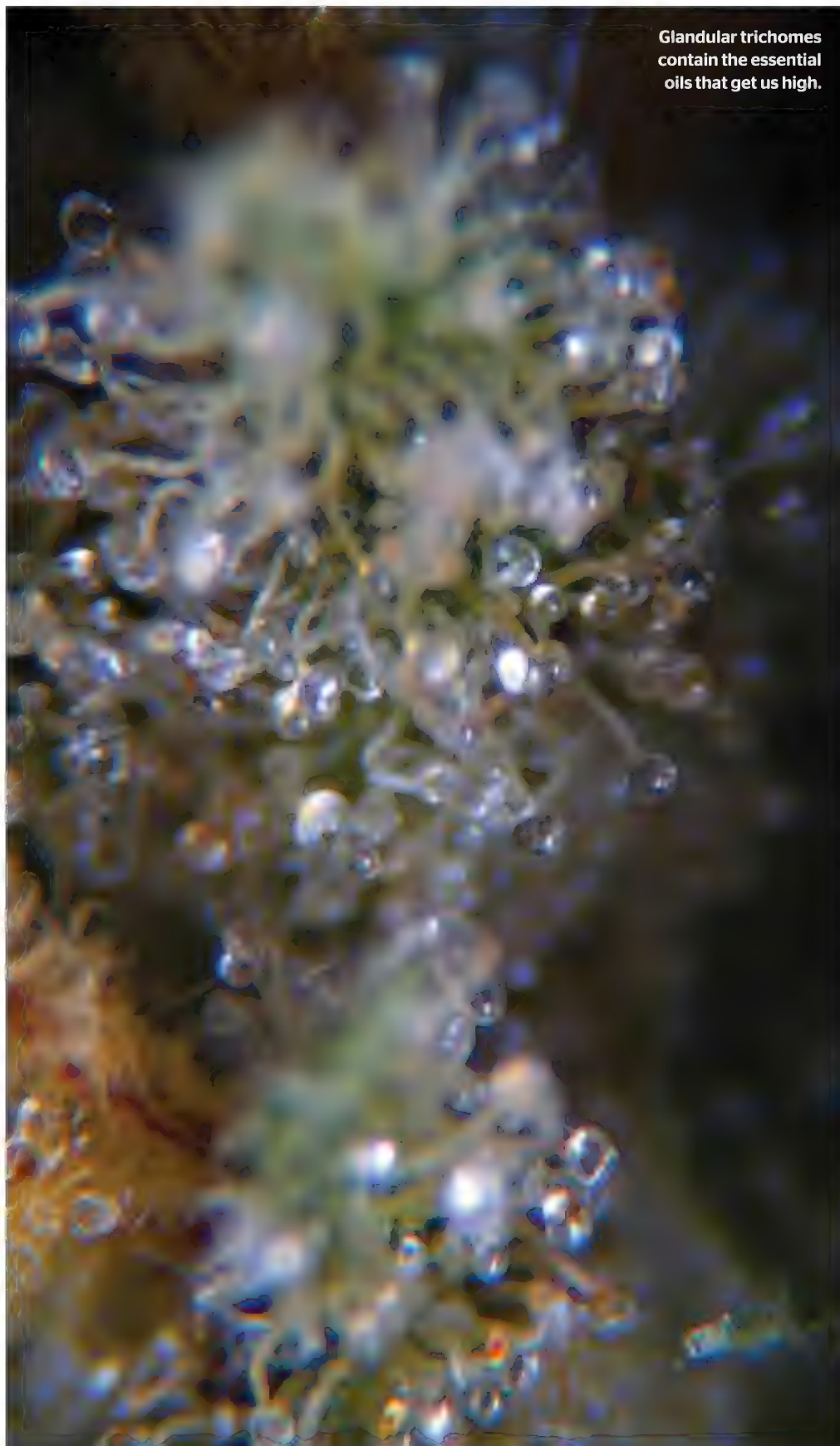
🌿 I'm a newbie to the world of pot, but I love to smoke and hope to grow it someday soon. I want to learn everything there is to know about marijuana, but like I said, I'm a total newcomer to the scene, with very little knowledge aside from what I've read on the Internet and in a couple of *High Times* magazines.

I keep hearing the word "trichomes," but I don't really understand what it means. Some people say it's the stuff that makes my buds shiny, and some people say it's an oil gland on the plants. I've also heard it's related to harvesting somehow. So I figured I would ask an expert.

Dear Tri,
Trichomes are tiny glands that form on some types of plants and produce a resinous secretion with a variety of functions, including as a defense against pests, animals or excessive sunlight. Trichomes on marijuana plants form primarily on the flowers (although they also appear on the leaves and stems), and they produce the essential oils that contain the active ingredients in cannabis—tetrahydrocannabinol (THC), cannabidiol (CBD), and the other cannabinoids and terpenes. So they are indeed what make your buds shiny, but there's much more to them as well.

Trichomes resemble tiny glass mushrooms with a stalk and a head, which becomes more bulbous as the trichome develops. The essential oils within these gland heads begin to turn cloudy, and eventually become amber. This is how trichomes are related to harvest: Most people take their plants down to trim and dry when the gland heads are mostly cloudy and not entirely amber. If the trichomes on your buds are still clear, that's an indication that the plant was harvested prematurely, before its

Glandular trichomes contain the essential oils that get us high.



Danko Tip: Never allow rockwool to dry out completely in a hydroponic system.



Dr. Who from TGA Seeds has been shown to work for PTSD, anxiety and depression.

SUBJECT LED Tech
FROM Kleep N.

🌱 I've been seriously considering switching to LED lighting now that I'm back in school and have a small apartment. I've done some reading and understand the basic pros and cons, but I have some questions. First, can you recommend some good-quality LED companies to check out? I find it difficult to tell the difference between reputable LEDs and the knockoffs.

Second, I watched the "Danny Danko's New LED Technology" video at the Rocky Mountain High dispensary, and it talked about two different LED setups: the F3 spectrum (blues and reds) and the X5

spectrum (green range). Would this be similar to using metal halide and high-pressure sodium lights for vegging and flowering?

Third, I assume the X5-spectrum LEDs are expensive, since they were developed by NASA—but is this true? Also, any other info you have to help me decide on the right type of LED setup would be greatly appreciated. Thanks and stay lifted!

Dear Kleep,
My feeling is that light-emitting diode (LED) technology is still developing, so only a few companies offer commercially available systems that rival the standard high-intensity discharge (HID) lights for

marijuana cultivation. One such company is Lush Lighting, which I've found to be on the cutting edge of LEDs for growing plants.

But as the technology develops and the price decreases, LEDs are becoming more and more of a viable option. I've seen many growrooms use them as supplemental lighting for their HIDs, or else use them during the vegetative stage in order to foster shorter internodal spacing. This ingenious technique keeps plants shorter and bushier, resulting in larger, more manageable harvests.

For now, however, my advice to indoor growers remains the same: use metal halide (MH) lights during the vegetative stage and high-pressure sodium (HPS) lights during flowering. This is the one tried-and-true way to maximize your plants' potential.

Using different spectrums of LED light is similar to using MH and HPS for vegging and flowering, but it doesn't yet compare in terms of the quality and size of the harvest. And you're right about the X5-spectrum LED being developed by NASA. It's still too cost prohibitive for use in home gardening applications.

SUBJECT Veterans With PTSD
FROM Kevin A.

🌱 I'd like to draw some attention to veterans like me who are currently suffering from PTSD. I've been prescribed a host of prescription meds that have done nothing but make me worse or turn me into a zombie, and I have found that the only thing that gives me any relief at all is cannabis. Also, there are studies out there that support this.

Dear Kevin,
I hear from veterans like you all the time, and it's amazing how many have looked me in the eyes and said, "Marijuana saved my life!" Clearly, cannabis can play an important role in treating PTSD, brain trauma and the other injuries incurred during military service. Sadly, research on this in the United States has been stifled by the DEA and the federal classification of marijuana as a Schedule I drug with no medical value whatsoever. The number of veterans we have lost to suicide as well as alcohol and prescription-drug abuse is astonishing; it



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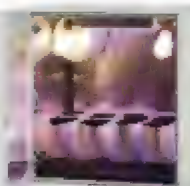
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Danko Tip: Avoid watering for the last few days before harvest.



is also a shame on us and especially our politicians, who place people in harm's way and then discard them once they're no longer needed. We must fight to end the stigma against marijuana, change the federal scheduling, and free the flower for more intensive study of her medicinal values.

SUBJECT: Powdery Mildew Resistance
FROM: DukeDeUke

🌱 When I first started growing, I had a real problem with powdery mildew (I was growing in a 2.5' x 5' x 5' cabinet), so I sought out strains that were naturally resistant to PM. Can you tell me what

mechanism is responsible for one cannabis plant being more resistant than others? Also, can you recommend some PM-resistant strains for new growers? (FYI, Subcool/ TGA Seeds' Qrazy Train is very PM-resistant!)

Dear DukeDeUke,
The ability of some plants to resist powdery mildew is a genetic trait. Over long periods of time, certain plants developed genes that rendered them less susceptible to the disease. This has been studied in detail with wheat plants, and scientists have identified the gene sequence responsible. The cannabis genome has also been mapped, but not for this particular trait (so far as I know). As for

PM-resistant strains, anything you can find from the Pacific Northwest or Western Canada should have at least some resistance to PM. I recommend Northern Lights, Blue Dream and Chernobyl, but keep in mind that no plant will be 100 percent resistant, which means you have to stay vigilant.

SUBJECT: Burnt Tips

FROM: Jay Farmer

🌱 No matter what I do, I always get burnt tips on my leaves! I follow the instructions on the nutrient bottles (General Hydroponics) to a T, and yet I always have this issue. The buds end up tasting and smoking all right, but I know something is off when I see the tips turning brown and drying up.

Dear Jay,
You're slightly overfeeding your plants. The recommended amounts on the labels of nutrient bottles tend to lean toward the maximum that your plants can absorb, sometimes leading to minor overfeeding issues like yours. These companies want you to run out of plant food as soon as possible and then head back to the grow store to buy more.

My advice is to feed at half the recommended rate unless you see signs of underfeeding. It's better to err on the side of caution: You can always add more nutes, but it's a lot harder to remove them in the case of a toxic buildup. Also, water with plain pH-balanced water between feedings to give your plants a break. Follow these two simple rules and you'll never see those dreaded burnt tips again.

SUBJECT: Old Seeds

FROM: Ivana Grow

🌱 I have a collection of seeds that I'd like to start sprouting. The problem is, many of them are very old—like over five years. The few that I've tried to sprout haven't really popped the way I wanted them to. Do you know of any techniques to get a better germination rate from seeds that might be past their prime?

Dear Ivana,
In order to answer your question, I consulted with my friend Mathew Gordon from Washington State. He told me

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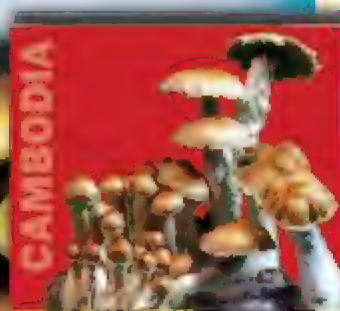
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that he recently tried to germinate some seeds for his Old Toby strain that were three years old and had never been stored properly. He placed the 200 or so seeds in a ziplock bag with two to three drops of water (any more and the seeds could possibly rot). After gently shaking the bag to spread the water around, he placed it in the refrigerator, in the spot where you're supposed to keep butter. After about a month in the fridge—during which time he took the bag out a few times to open it up, air it out and then shake it gently again to redistribute the moisture—he placed the seeds between two moist, but not soaked, paper towels. (He also recommends using filtered water and keeping the seeds around 70°F to 80°F degrees—i.e., higher than room temperature.) Within a couple of days, many of the seeds had cracked open, revealing tiny taproots.

In the end, Matthew says, almost all of the seeds popped and became viable plants. His earlier efforts had yielded only about a 5 percent germination rate, so he swears by this method for revamping old or improperly stored seeds. Good luck!



SUBJECT: **Falling Branches**

FROM: **Doctor Octopot**

I have what some might call a high-class problem. I grow my plants in 5-gallon buckets and vegetate them for six weeks before I start flowering them. By the time I'm ready to harvest, the plants are over 4 feet tall, with multiple branches. The only problem is that many of the branches sag and droop under the weight of the buds that form on them. What's the best way to keep them standing closer to the lights?

Dear Doctor,

The easiest way to ensure that your colas stay upright is a simple trellis system. I prefer this method to using individual stakes because it's less work and more forgiving. Use strong string or rope to create a net the size of your canopy, with holes approximately 6 by 6 inches. Safely secure it above your plants during the vegetative stage and let their branches grow up into it, taking care to guide them into the available holes. Eventually, this trellis system will keep all of the branches pointing up toward your lights, and you won't have to worry about sagging colas that don't receive enough lumens to reach their full potential.

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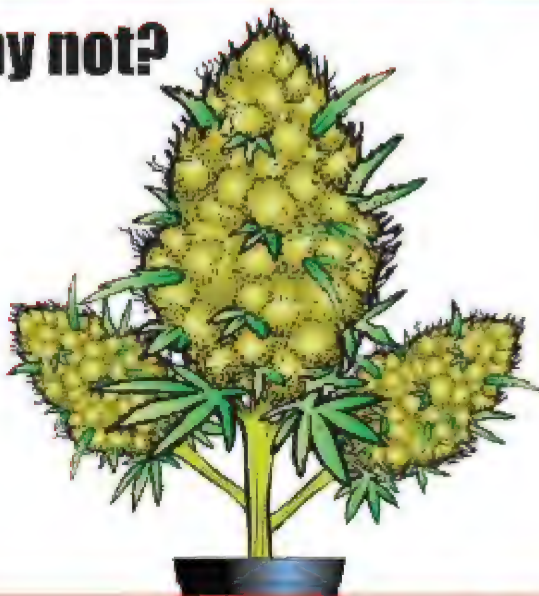


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Danko Tip: Coco requires less watering than many other mediums because it retains water longer.



Plenty of pot can be grown in a relatively small grow tent.

SUBJECT: **Newb Toob**

FROM **BP**

Hi, I am a real newbie, not to consumption, but to growing. I want to grow a few plants, like two or three for personal consumption. I have a ton of questions, like where do you buy your supplies (i.e. bulbs, fans seeds etc.) Is there a reputable source I can buy as a guide to help me get started? Any advice would be appreciated.

Dear BP,

Your best bet is to get yourself a good grow book or DVD. I highly recommend anything by Jorge Cervantes such as his *Marijuana Horticulture: The Indoor/Outdoor Medical Grower's Bible*. For DVD's look no further than my colleague Nico Escondido's *Grow Like A Pro*. Get yourself a subscription to *High Times* magazine and be sure to check our website, hightimes.com for tons of free growing information. Be wary of random advice you get on the Internet, as there's plenty of false information and confusing methodology there.

The best place to get your supplies is at a hydroponic specialty grow store if you have one near you. If not you can order products online, but it will be difficult to find everything you need at a hardware store. Don't order products to be delivered to the place you intend to grow, just to be safe. Seeds are a different story. You can order them online from a variety of companies but do your research, to ensure they're legit.

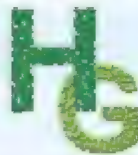
My advice is to buy yourself a grow tent system around 4 by 4 feet with lighting included. They're affordable and will outperform a typical closet. Hang the light, pop your seeds and get growing! The only true way to learn is by doing. Just remember, keep it simple and err on the side of caution with feeding and watering. 🌿


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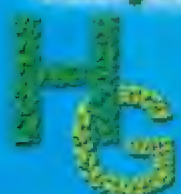

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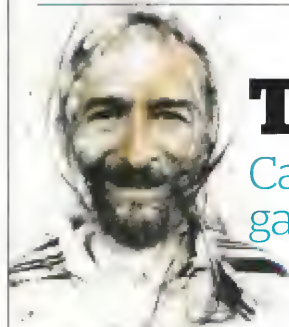
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Toking Truths

Cancer, hippies and gateway myths.



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What's up with high-CBD strains and colon cancer?

Sherry Ozborn

Hi Sherry,
New animal data suggest that high-CBD strains can shrink tumor size, which seems a very promising step toward a cure. But these results don't mean regular users are immune to the disease. We all need to stay away from cigarettes, get regular colonoscopies, and eat a healthy diet low in fat and high in fiber.

they also drank milk first. But most of the 100 million Americans who have tried marijuana don't use it regularly, and most cannabis fans have never used hard drugs. Plus, researchers frequently ignore those who did hard drugs prior to smoking cannabis, essentially stacking the deck to get a "gateway effect."

People who develop problems with hard drugs are also less likely to wear seat belts and practice safe sex, and more likely to ride in the front

Why does everyone assume that cannabis enthusiasts are hippies?

Nick Beat

Hi Nick,
By the 1900s, according to one theory, opium smokers were described as "on the hip" because they spent so much time played on wooden beds that would hurt anyone's pelvis. Those who understood the expression were in the know, so "hip" took on the meaning of being an insider who was privy to all things cool. The 1960s counterculture adopted the term "hippies" for those who defied convention in many ways, including the use of our beloved plant.

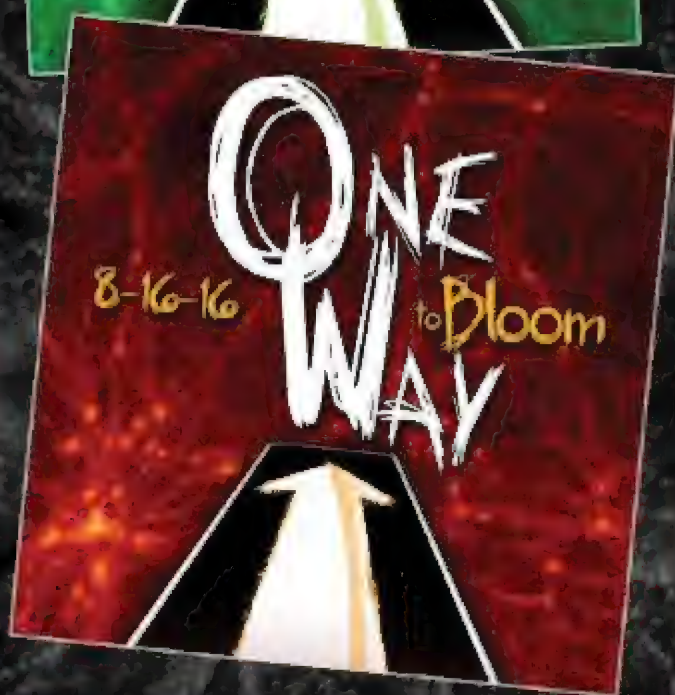
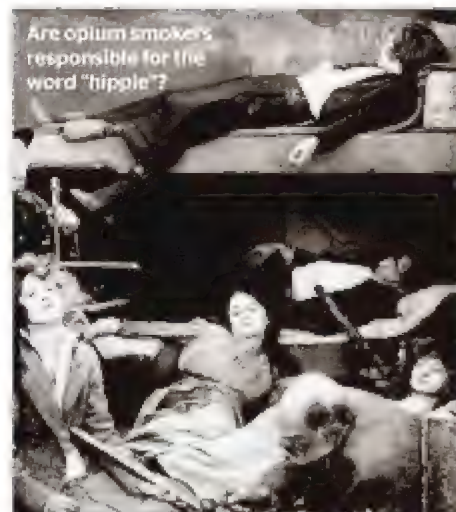
car of a rollercoaster. In short, they have sensation-seeking traits. The alleged progression from one drug to the next is all about personality and life stressors, not some pharmacological property of the plant. The idea that marijuana makes people crave hard drugs the way salt makes people thirsty simply isn't true. 🌿

Can you help me challenge these "gateway theory" arguments?

William Gates

Hi Bill,
As everyone should know by now, correlations aren't causes. Sure, some heroin addicts used marijuana first;

Dr. Mitch Earleywine, PhD, is a professor of psychology at SUNY Albany and the author of Understanding Marijuana and The Parents' Guide to Marijuana.



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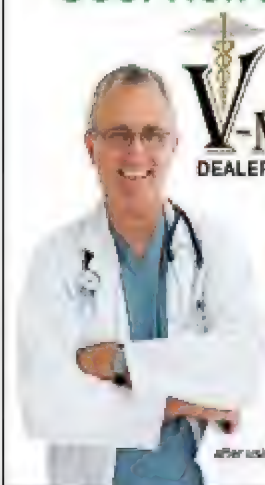
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The Origin of 710

A brief history of the other high holiday.

By Craig Coffey

The origin of 420 is common stoner knowledge by now. A group of young potheads starts meeting after school at 4:20 to get stoned. Thanks to the Grateful Dead and the apparent desire of young tokers to have some structure built into their drug consumption, the 420 legend grows into the world's first stoner holiday. As for the origin of the world's *second* stoner holiday, 710, a lot less is known.

Essentially, 710 is the annual date (July 10) reserved for getting high on dabs—an entire day to appreciate the greatness of THC and terpenes on a nail. After all, one stoner holiday is simply not enough for the modern cannabis consumer. But how did we arrive at 710? The Dead serendipitously took 420 to the national level while living at 710 Ashbury Street. That's not what spawned 710, but you have to admit there's a pretty cosmic numerology pattern at play.

The earliest references to 710 trace back to Sacramento, CA, about four years ago. While some people believe the number is connected to a telephone area code, it turns out that the seven-one-oh is reserved for federal-government use only—basically, you should *never* pick up a call coming from a 710 area code. Spooky.

Despite the coincidences and rumors, the truth is that the second heady holiday was chosen simply because turning the word "OIL" upside down results in 710. That's really all there is to it.

While its origin story is less exciting, 710 does boast several advantages over 420. For some people, 420 is more than just an annual occurrence; for these determined tokers, 4:20 is a time of day, and it comes twice a day, every day. For those who celebrate 4:20 730 times a year (732 times on leap years), 7:10 offers a more reasonable time to get a

buzz on. Let's face it, who really wants to be awake at 4:20 a.m.? And who can hold a job and still get high every day at 4:20 p.m.? On the other hand, twice-daily celebrants can wake-and-bake at 7:10 a.m. and still make it to work or school. They can also get DTFO (dabbed the fuck out) every day at 7:10 p.m. and still keep a corner office or maintain a 4.0 GPA. The 7:10 daily celebration just fits better into the productive stoner life. In fact, most of us are getting high at these times of the day *without* adjusting our schedule.

Also, April 20 is full of dubious historical anniversaries, such as the Columbine massacre and Adolf Hitler's birthday. July 10 comes with a lot less baggage. Some of history's notable 7/10s include:

1212: The Great Fire of Southwark burns most of London to the ground. Possibly the first torch accident in recorded 7/10 history?

1821: The United States takes Florida from Spain, opening up the drug/money superhighway known as I-95, or "the Crippie Trail."

1856: Nikola Tesla, inventor of many of the components found in an e-nail, is born.

1913: Death Valley, CA, hits 134°F, the highest temperature ever recorded in the United States... hot enough to purge 'tane from a slab of errl.

1977: Convicted Australian smuggler Schapelle Corby is born ... this one kind of sucks, but at least she's a free woman and back with her family again.

2012: *High Times* legitimizes the emerging stoner holiday by recognizing 710 in an article on the High Times website. (hightimes.com/710). 🌿




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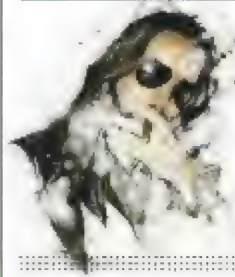
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Nobody's Fault But Mine

A chance to meet guitar god Jimmy Page goes sadly awry.

Throughout my adolescence and into adulthood, Led Zeppelin were always the band for me. It was their eponymous first album that set me upon the incontrovertible path of rockedom, and my first tattoo was of their Swan Song label art. So when I discovered an invite in my inbox to an exclusive “special conversation” with the band’s legendary guitarist—celebrating the launch of his new photographic autobiography, *Jimmy Page by Jimmy Page*—I practically leapt out of my seat.

The event was being hosted by fashion designer John Varvatos at the rock-couture boutique he’s built inside the semi-renovated corpse of former punk mecca CBGB. I arrived 15 minutes early, but the line had already snaked around the corner. As I waited to enter, a security guard laid down the evening’s strict ground rules: “There’s no photography or video allowed. Jimmy will not be posing for any photos, nor will he be signing anything. If you purchase a book, you’ll have an opportunity to have Jimmy stamp it.”

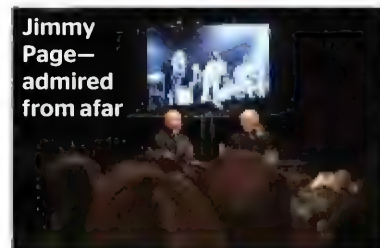
When I finally made it inside, the first thing I saw was a table covered with Jimmy’s books. As I reached out to have a look at one, another security goon interceded.

“Those books are for display only,” he chided. “There are copies available for purchase behind the counter.”

“I’m not allowed to look at it before I buy it?” I replied. “Isn’t that what ‘display’ means—to look at?” Apparently, we really *did* have to judge a book by its cover here. I glanced at the counter—the book line was almost as long as the one to get in. The bar, on the other hand, seemed rather accessible. I ordered a Stella and headed toward the front, but I

didn’t make it far before the room was a-roar: Varvatos and Page were taking the stage.

The crowd was so dense that I couldn’t see more than the top of Jimmy’s head for a second or two at a time. Nevertheless, I listened enraptured as he regaled us with tales of excess and excellence from both the road and in the studio.



Jimmy Page—admired from afar

As the conversation wound down, I headed back toward the front for a refill and a copy of the book.

“I’m sorry,” said the clerk at the counter, “but we’re sold out.”

“You’ve got to be shitting me ... you sold *every* book?”

Great—with no book to stamp, security wouldn’t let me get on line to meet Page. Instead, I was forced to stand and watch from behind the accursed velvet ropes as nearly every other jackass in the place—except for me—took turns meeting my idol.

“Fuck this place!” I thought out loud, then charged crestfallen toward the exit. On my way, I passed the display table again—now devoid of books, but still guarded by that same security gorilla.

“I guess those books weren’t for ‘display only’ after all, huh, asshole?” I snapped. I was pissed—pissed that I’d spent all night stuck in this couture clusterfuck with barely a buzz to show for it. Pissed that I didn’t get to shake the hand of one of the greatest guitarists in history or inquire about an interview. But most of all, pissed at myself for squandering this once-in-a-lifetime opportunity. Because, in truth, it wasn’t Varvatos or those dickhead security guards who had prevented me from meeting Jimmy Page. In the end, it was nobody’s fault but mine. ✨

Read an extended version of this at hightimes.com/almostinfamous



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A Tale of Two Cities

Amsterdam or Denver? A question for pot tourists.

Paul Armentano is deputy director of NORML. Visit norml.org.

Say you're a cannabis consumer who wants to enjoy the plant responsibly without government harassment. Which city do you visit: Amsterdam or Denver?

For the past 35 years, that answer was pretty easy—Amsterdam. The Netherlands is the undisputed progenitor of retail recreational pot. For decades, the country's vaunted policy of tolerance has permitted the flourishing of coffeeshops, which allow their patrons to purchase and consume cannabis on-site. Additionally, much of America's emerging "harm reduction" drug policies are based on the model that the Netherlands adopted. But again, the Dutch only *tolerate* the sale of pot—and how much is covered by this policy of tolerance reflects, more often than not, the views of those leading the government.

Tolerance only goes so far in the Netherlands these days. Some local politicians have actually sought to ban foreign tourists from visiting coffeeshops. Even in Amsterdam, that legendary bastion of cannabis freedom, the number of coffee-shops is being reduced, and local officials are encouraging law enforcement to start harassing tourists who come to enjoy the city's cannabis scene.

Conversely, in Denver, CO, there is no longer any "gray area" regarding cannabis cultivation, sales and possession—all are now *legal* and, in many respects, no different from the policy for alcohol products.



Amsterdam used to be the sole acceptor of your cannabis-tourist dollars.

Tolerance only goes so far in the Netherlands these days. Some local politicians have actually sought to ban foreign tourists from visiting coffeeshops.

In 2012, the voters of Colorado (along with voters in Washington State) defeated pot prohibition by approving a binding ballot measure that compelled policymakers to create a tax-and-regulate system

for cannabis. Any person over 21 years of age can now visit a cannabis store in Denver and purchase up to a quarter-ounce of pot; residents of Colorado can purchase up to an ounce. Cannabis tourism is also encouraged and championed, with tens of thousands of out-of-state visitors attending events like the High Times U.S. Cannabis Cup in April.

Where Dutch policy is still superior is in the consumers' ability to enjoy cannabis in the pub-like settings provided by coffeeshops. In the states where cannabis is now legal, a remnant of prohibition persists in the banning of its use in commercial establishments. This one glaring defect in Colorado's otherwise consumer-friendly cannabis laws negatively affects tourists, who are generally prohibited from smoking or vaping in "smoke-free" hotels and public spaces—and it's certainly not permitted in automobiles.

Both Amsterdam and Denver are great cities, and everyone should visit them at least once. Amsterdam is a historic center for art and commerce, while Denver is a fast-growing mecca for outdoor adventure. Amsterdam is flat and largely below sea level; for most of the year, its climate is dark and dank. Denver boasts a mile-high elevation, the Rocky Mountains and 300 days of sunshine a year—and you don't need a passport to visit.

So where do you plan to spend your cannabis-tourist dollars? 🌿

FREEDOM FIGHTER

By Erik Altieri, NORML communications coordinator

Weed Wonder Woman

Sabrina Fendrick is the ultimate organizer.

While attending Christopher Newport University in Virginia, Sabrina Fendrick began a journey that would ultimately lead her toward a career in marijuana-law reform. It all started when her apartment was targeted by local law enforcement.

"After experiencing injustice firsthand," Fendrick says, "I began researching the war on marijuana and became involved in the battle for legalization, eventually moving to Washington, DC, to take a job at NORML's national headquarters."

For the past seven years, Sabrina has dedicated herself to the cause in a variety of roles. In 2010, she



established the NORML Women's Alliance, the first nationwide women's outreach program for the drug-law reform movement. Last year, she opened NORML's first satellite office in Denver, serving dually as the chapter coordinator for the Southeast and Western regions of the country. Most recently, she launched the NORML Business Network, a new

initiative working to build bridges between consumer advocates and the cannabis industry.

Sabrina is also a member of the Students for Sensible Drug Policy advisory council, serves on the advisory board for the Marijuana Majority, and has functioned as a project manager for the Berkeley Patients' Group in California—one of America's oldest and most respected dispensaries.



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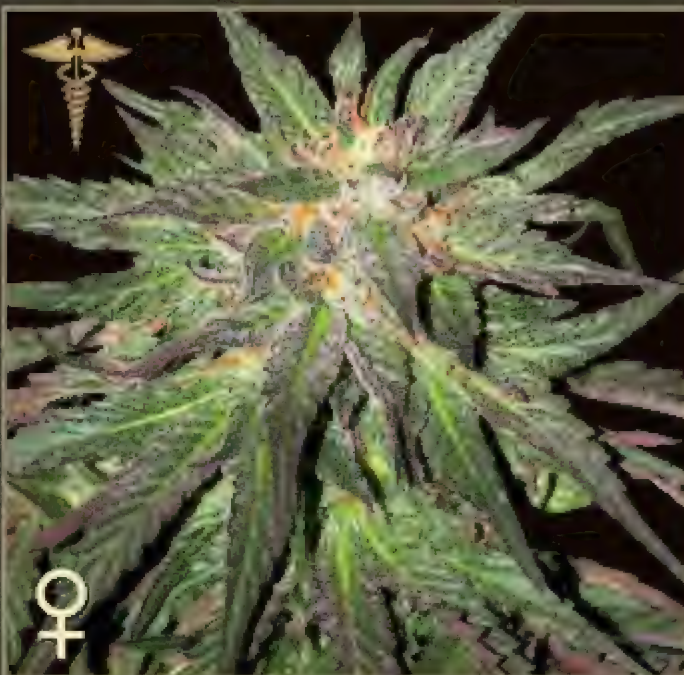
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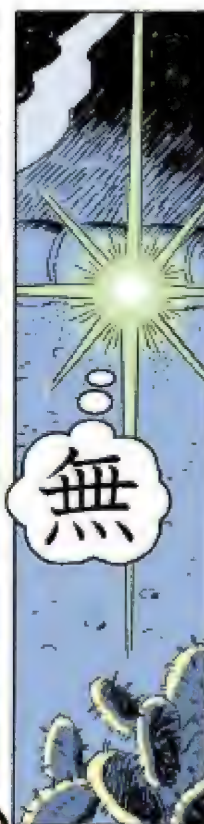
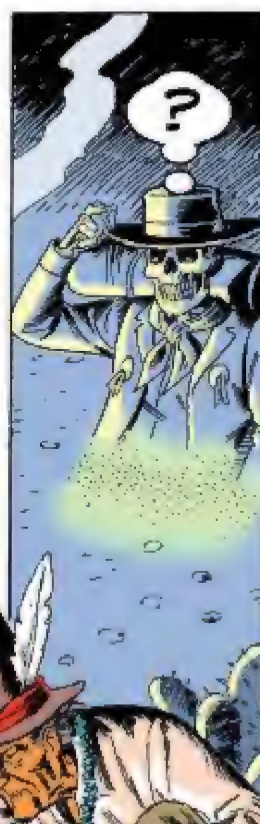
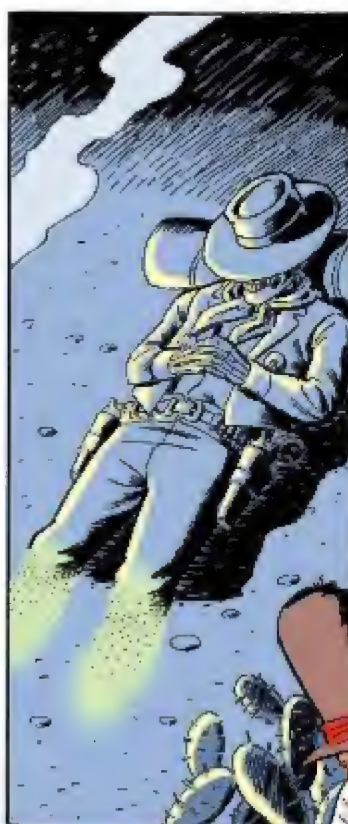
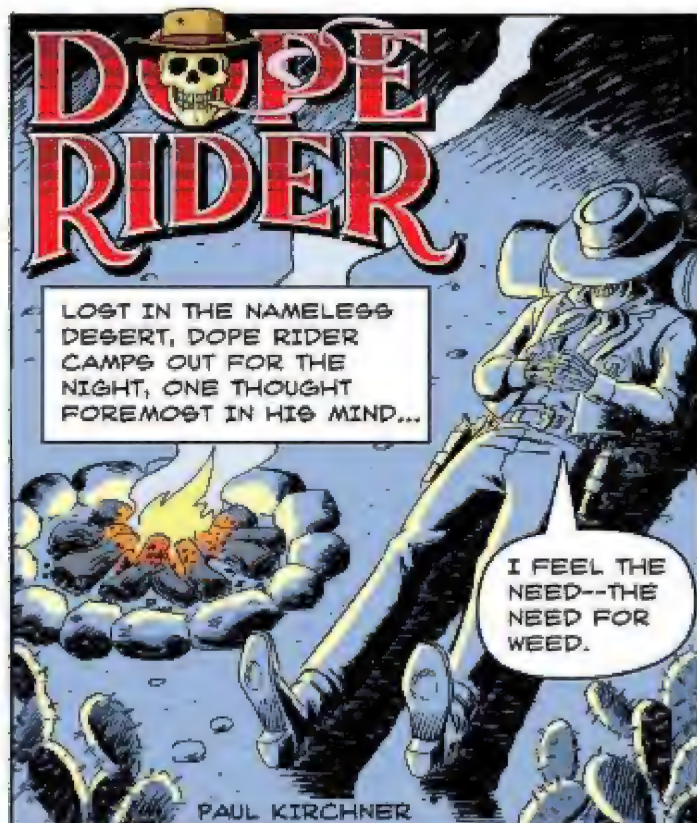


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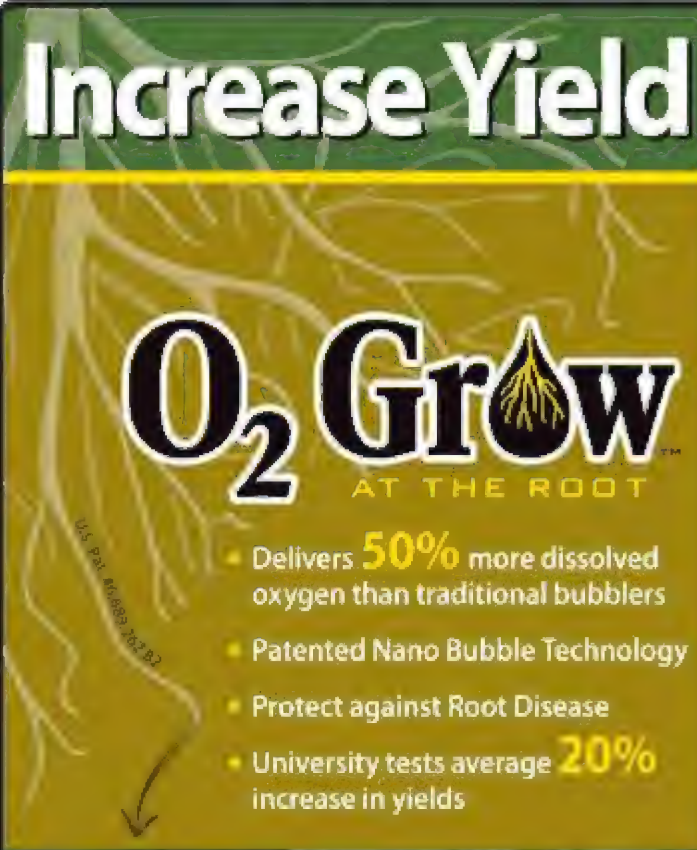


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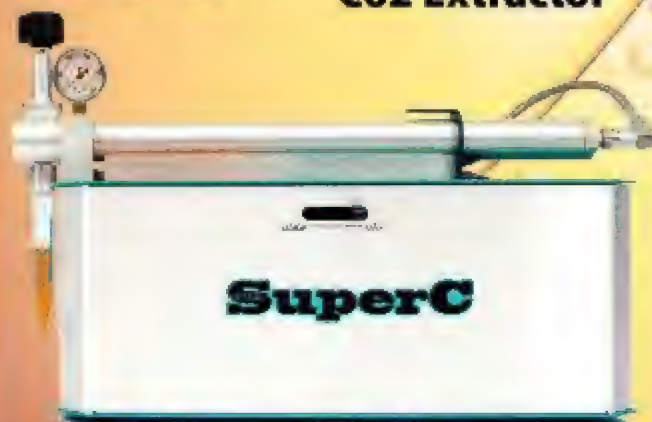


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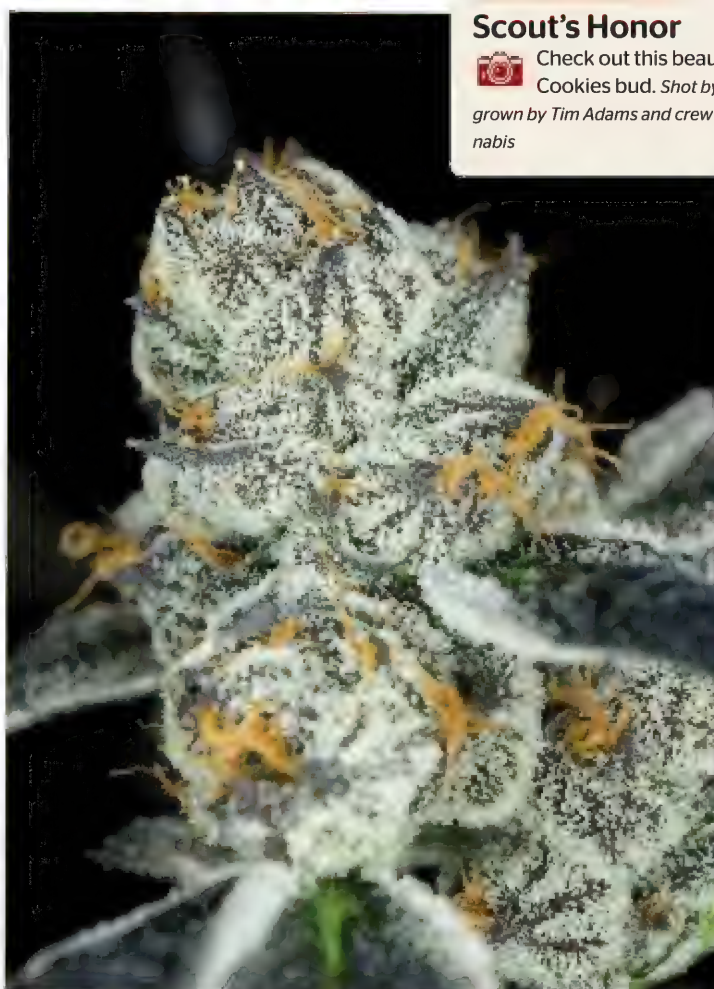


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Scout's Honor



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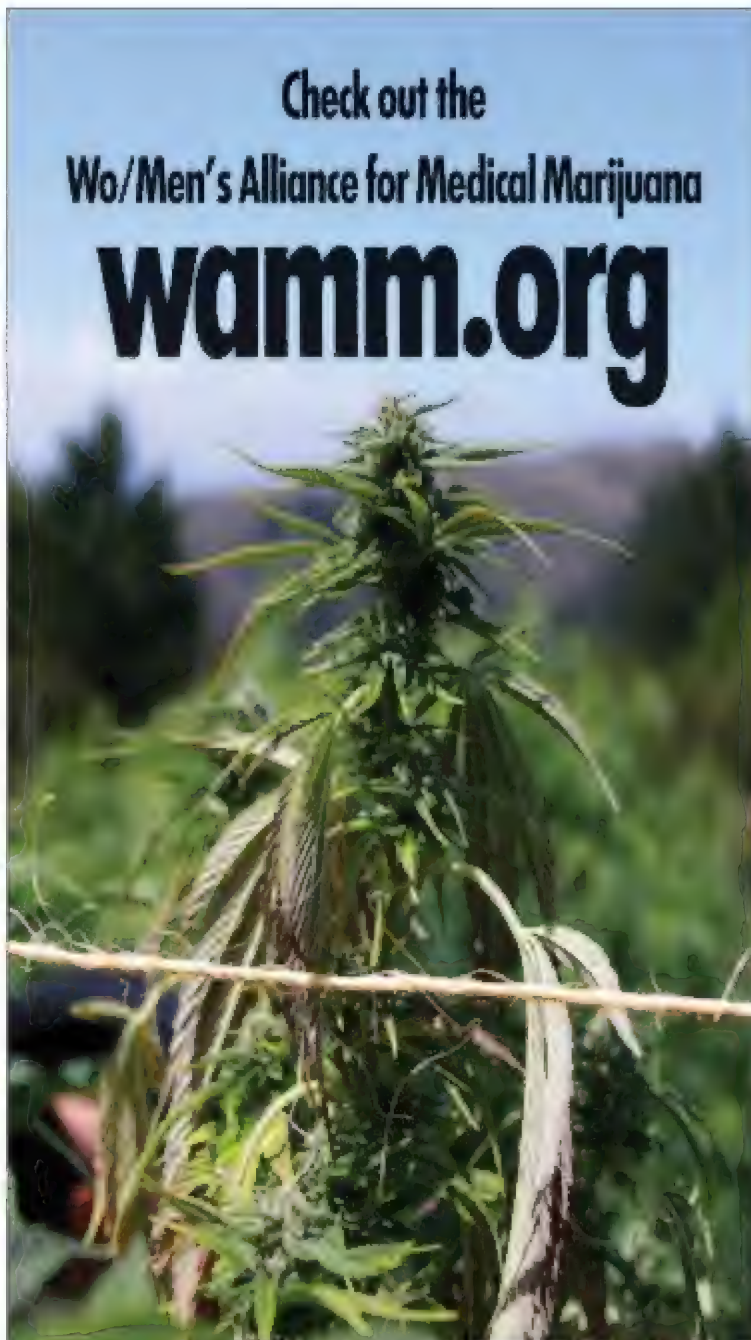
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Strongest Strains on Earth

What pot varieties deserved to be hailed as the most potent on the planet in the past year? We crunch the numbers from the 2014 Cannabis Cups to determine which strains qualify as the strongest on Earth. As always, our list just may surprise you!

Women of Weed

Winning over women will be the key to legalizing cannabis nationwide. Fortunately, talented female ganja-preneurs are stepping forward to create their own businesses and to champion the reform of the nation's failed drug laws. Meet the most influential women in the world of weed!

Elementally Sensational!

In California, the name "Elemental" is synonymous with great medical pot and award-winning seeds. Editor-in-chief Dan Skye checks out the two divisions of the Elemental empire that have made this cannabusiness an industry leader.

2015 SoCal High Times Cannabis Cup

Our first Cannabis Cup of the year took place in San Bernardino in February. The cannabis community, including hip-hop superstar Rick Ross, flocked to the high desert of Southern California to sample the finest pot products on the West Coast.

The Green Zone

Marijuana for Trauma was created by Canadian veterans to help other vets heal themselves using medical cannabis. Their success rates for treating both pain and PTSD are astounding. And guess what? Veterans Affairs Canada pays for up to 10 grams a day. Will American soldiers ever be afforded the same care? *HT* sordid-affairs editor Chris Simunek investigates.

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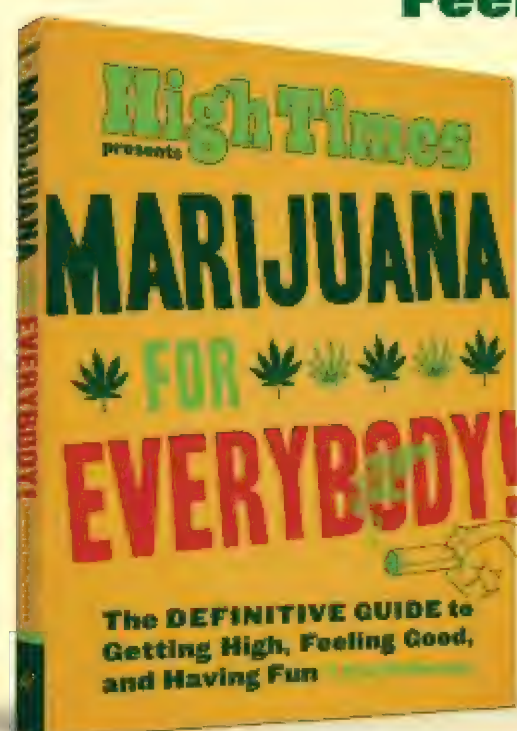
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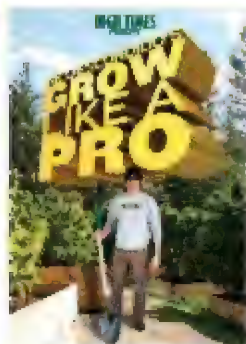


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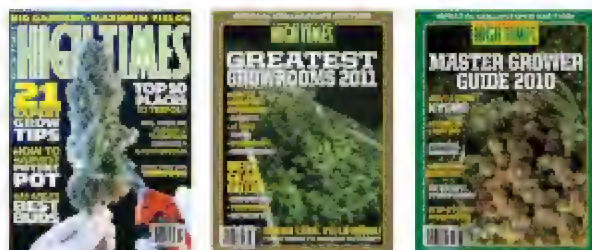
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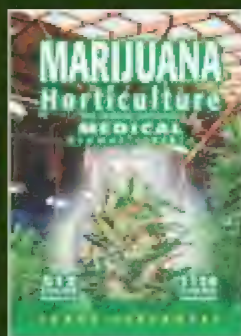


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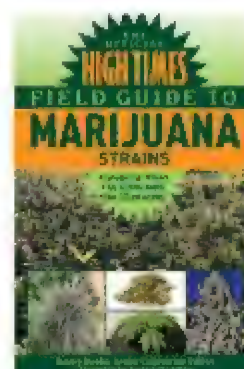


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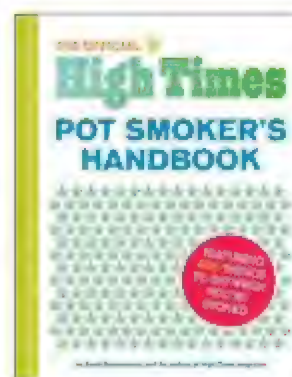
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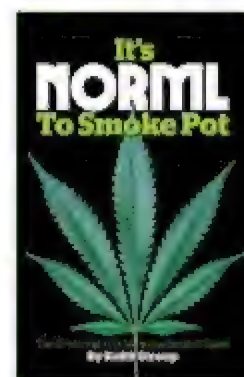
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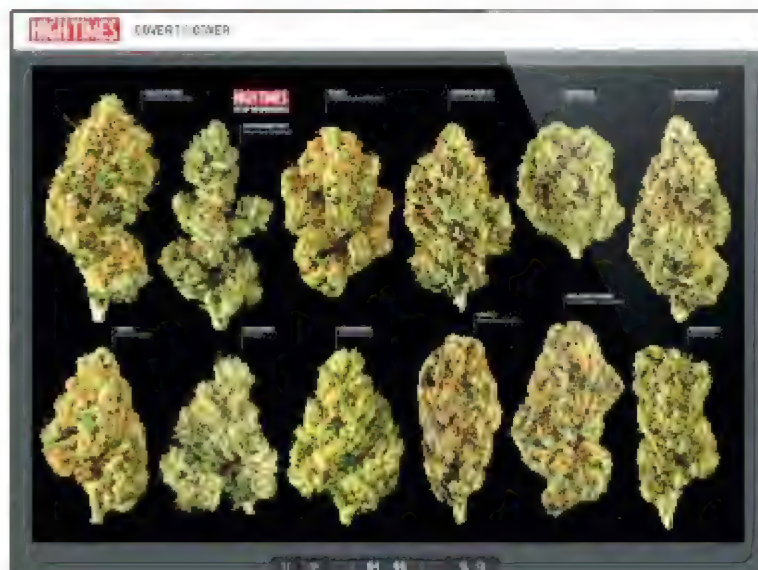
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Name	Subtotal		
Address	S&H	<input type="checkbox"/>	(\$11.00)
City	Province / State	Xpress Ship	<input type="checkbox"/> (\$30.00)
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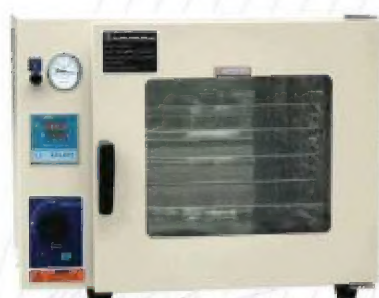
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